

4.1.

n-

**Edit1Change**

```
procedure TForm1.Edit1Change(Sender: TObject);
begin Edit3.Clear;
end;
```

Object Inspector-**Events****OnChange****Button1Click:**

```
procedure TForm1.Button1Click(Sender: TObject);
var n,b,s:integer;
begin n:=StrToIntDef(Edit1.Text,1);
      If n<0 then n:=0;
      Edit1.Text:=IntToStr(n);
      b:=StrToIntDef(Edit2.Text,1);
      Edit2.Text:=IntToStr(b);
      s:=Stepen(b,n);
      Edit3.Text:=IntToStr(s);
end;
```

Stepen(b,n)(**private**):

```
function Stepen(o,e:integer):integer;
private
```

end.

```
function TForm1.Stepen(o,e:integer):integer;
var s:integer;
begin s:=1;
      While e>0 do
      begin s:=s*o;e:=e-1;
      end;
      stepen:=s;
end;
```

TForm1.**Stepen(b,n)**

```

function TForm1.Stepen(o,e:integer):integer;
begin If e=0
    then stepen:=1
    else stepen:=stepen(o,e-1)*o;
end;

```

*e=0***Button1Click:**

```

procedure TForm1.Button1Click(Sender: TObject);
var n,b,s:integer;
begin n:=StrToIntDef(Edit1.Text,1);
    If n<0 then n:=0;
    Edit1.Text:=IntToStr(n);
    b:=StrToIntDef(Edit2.Text,1);
    Edit2.Text:=IntToStr(b);
    Stepen(b,n,s);
    Edit3.Text:=IntToStr(s);
end;

```

*Stepen(b,n,s)**private):*

```

procedure Stepen(o,e:integer;var s:integer);
private

```

*VAR,**end.*

```

procedure TForm1.Stepen(o,e:integer;var s:integer);
begin s:=1;
    While e>0 do
    begin s:=s*o;e:=e-1;
    end;
end;

```

*TForm1.**Stepen(b,n,s)*

```

procedure TForm1.Stepen(o,e:integer;var s:integer);
begin If e=0
    then s:=1;
    else begin stepen(o,e-1,s);s:=s*o;
    end;
end;

```


Button1Click:

```

procedure TForm1.Button1Click(Sender: TObject);
var n,f:integer;
begin n:=StrToIntDef(Edit1.Text,1);
      If n<0 then n:=0;
      Edit1.Text:=IntToStr(n);
      Fakt(n);
      Edit2.Text:=IntToStr(f);
end;

```

```

procedure TForm1.Fakt(n:integer;var f:integer);
begin f:=1;
      While n>0 do
      begin f:=f*n;n:=n-1;
      end;
end;

```

```

procedure TForm1.Fakt(n:integer;var f:integer);
begin If n=0
      then f:=1
      else begin fakt(n-1);f:=f*n;
      end;
end;

```

4.3.**n.****Edit1Change:**

```

procedure TForm1.Edit1Change(Sender: TObject);
begin Mem1.Clear;
end;

```

**Object Inspector-
OnKeyPress,****Events**

```

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button1.Click;
      If not (key in ['0'..'9',#8,#128]) then key:=#27
end;

```

Edit1KeyPress:**Button1Click:**

```

procedure TForm1.Button1Click(Sender: TObject);
var n,b:integer;
begin n:=StrToIntDef(Edit1.Text,1);
      Edit1.Text:=IntToStr(n);
      For b:=1 to n do
      If b=Cifre(b) then Mem1.Lines.Add(IntToStr(b));
      Edit1.SetFocus;
end;

```

```

function TForm1.Cifre(n:integer):integer;
var c,z:integer;
begin z:=0;
      While n>0 do
      begin c:=n mod 10;
            n:=n div 10;
            z:=z+c*c*c;
      end;
      cifre:=z;
end;

```

```

function TForm1.Cifre(n:integer):integer;
var c:integer;
begin If n=0 then cifre:=0
      else begin c:=n mod 10;cifre:=Cifre(n div 10)+c*c*c;
      end;
end;

```

Button1Click:

```

procedure TForm1.Button1Click(Sender: TObject);
var n,b,z:integer;
begin n:=StrToIntDef(Edit1.Text,1);
      Edit1.Text:=IntToStr(n);
      For b:=1 to n do
      begin Cifre(b,z);
           If b=z then Mem1.Lines.Add(IntToStr(b));
      end;
      Edit1.SetFocus;
end;

```

```

procedure TForm1.Cifre(n:integer;var z:integer);
var c:integer;
begin z:=0;
      While n>0 do
      begin c:=n mod 10;
           n:=n div 10;
           z:=z+c*c*c;
      end;
end;

```

```

procedure TForm1.Cifre(n:integer;var z:integer);
var c:integer;
begin If n=0 then z:=0
      else begin c:=n mod 10;
                Cifre(n div 10,z);
                z:=z+c*c*c;
            end;
end;

```

4.4.**n****Edit1Change:**

```

procedure TForm1.Edit1Change(Sender: TObject);
begin Mem1.Clear;
end;

```

Object Inspector- Events
OnKeyPress,

Edit1KeyPress:

```

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button1.Click;
      If not (key in ['0'..'9',#8,#128]) then key:=#27;
end;

```



Button1Click (j , **11,**
11.

101):

```

procedure TForm1.Button1Click(Sender: TObject);
var n,b:integer;
begin n:=StrToIntDef(Edit1.Text,1);
      Edit1.Text:=IntToStr(n);
      Mem1.Clear;
      If n>11 then Mem1.Lines.Add('11');
      For b:=101 to n do
      If Prost(b) and Isto(b)
      then Mem1.Lines.Add(IntToStr(b));
      Edit1.SetFocus;
end;

```

Isto**Prost**

```

function TForm1.Prost(a:integer):boolean;
var d:integer;
begin d:=2;
      While (a mod d<>0)and(d<=Sqrt(a)) do d:=d+1;

```


Isto,

4.5.

*n***Edit1Change:**

```
procedure TForm1.Edit1Change(Sender: TObject);
begin Mem1.Clear;
end;
```

**Object Inspector- Events
OnKeyPress,****Edit1KeyPress:**

```
procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button1.Click;
      If not (key in ['0'..'9',#8,#128]) then key:=#27
end;
```

Button1Click (j, 11,
11.

101):

```
procedure TForm1.Button1Click(Sender: TObject);
var n,b:integer;
begin n:=StrToIntDef(Edit1.Text,1);
      Edit1.Text:=IntToStr(n);
      Mem1.Clear;
      If n>11 then Mem1.Lines.Add('11');
      For b:=101 to n do
        If Prost(b) and Isto(b)
          then Mem1.Lines.Add(IntToStr(b));
      Edit1.SetFocus;
end;
```

Isto

```
function TForm1.Prost(a:integer):boolean;
var d:integer;
begin d:=2;
      While (a mod d<>0)and(d<=Sqrt(a)) do d:=d+1;
      prost:=d>Sqrt(a);
end;
```

Prost

```
function TForm1.Isto(a:integer):boolean;
var c:integer;
      sc:set of 0..9;
begin sc:=[a mod 10];
      a:=a div 10;
      isto:=true;
      Repeat c:=a mod 10;
            a:=a div 10;
            If c in sc
              then isto:=false
              else sc:=sc+[c];
      Until a=0;
end;
```

Button1Click:

```
procedure TForm1.Button1Click(Sender: TObject);
var n,b:integer;
      p:boolean;
begin n:=StrToIntDef(Edit1.Text,1);
      Edit1.Text:=IntToStr(n);
      If n>11 then Mem1.Lines.Add('11');
      For b:=101 to n do
        begin Prost(b,p);
              If p then
                begin Isto(b,p);
                      If p then Mem1.Lines.Add(IntToStr(b));
```

```

        end;
    end;
    Edit1.SetFocus;
end;

```

Prost

```

Isto
:
procedure TForm1.Prost(a:integer;var p:boolean);
var d:integer;
begin d:=2;
    While (a mod d<>0)and(d<=Sqrt(a)) do d:=d+1;
    p:=d>Sqrt(a);
end;

```

```

procedure TForm1.Isto(a:integer;var p:boolean);
var c:integer;
    sc:set of 0..9;
begin sc:=[a mod 10];
    a:=a div 10;
    p:=true;
    Repeat c:=a mod 10;
        a:=a div 10;
        If c in sc
            then p:=false
            else sc:=sc+[c];
    Until a=0;
end;

```

4.6.**n.****Edit1Change:**

```

procedure TForm1.Edit1Change(Sender: TObject);
begin Mem1.Clear;
end;

```

Edit1KeyPress:

```

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button1.Click;
    If not (key in ['0'..'9',#8,#128]) then key:=#27
end;

```

**Button1Click:**

```

procedure TForm1.Button1Click(Sender: TObject);
var n,b:integer;
begin n:=StrToIntDef(Edit1.Text,1);
    Edit1.Text:=IntToStr(n);
    For b:=1 to n do If b=ZbirDelioca(b) then Mem1.Lines.Add(IntToStr(b));
end;

```

ZbirDelioca

```

1 n:
function TForm1.ZbirDelioca(b:integer):integer;
var s,d:integer;
begin s:=1;
    For d:=2 to b div 2 do If b mod d=0 then s:=s+d;
    zbirdelioca:=s;
end;

```

```

:
procedure TForm1.Button1Click(Sender: TObject);
var n,b,s:integer;
begin n:=StrToIntDef(Edit1.Text,1);
    Edit1.Text:=IntToStr(n);
    For b:=1 to n do
        begin ZbirDelioca(b,s);
            If b=s then Mem1.Lines.Add(IntToStr(b));
        end;
end;
end;

```

```

procedure TForm1.ZbirDelioca(b:integer;var s:integer);
var d:integer;
begin s:=1;
      For d:=2 to b div 2 do If b mod d=0 then s:=s+d;
end;

```

4.7.

n.

Edit1Change:

```

procedure TForm1.Edit1Change(Sender: TObject);
begin Memol.Clear;
end;

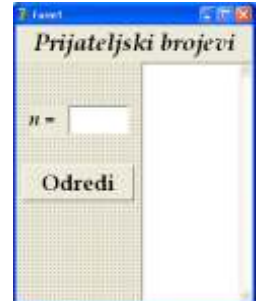
```

Edit1KeyPress:

```

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button1.Click;
      If not (key in ['0'..'9',#8,#128]) then key:=#27
end;

```



1 n

Button1Click:

```

procedure TForm1.Button1Click(Sender: TObject);
var n,a,s,b:integer;
begin n:=StrToIntDef(Edit1.Text,1);Edit1.Text:=IntToStr(n);
      For a:=1 to n do
      begin b:=ZbirDelioca(a);
            s:=ZbirDelioca(b);
            If (s=a)and(a<b) then Memol.Lines.Add(Format('%5d%5d',[a,b]));
      end;
end;

```

ZbirDelioca

```

function TForm1.ZbirDelioca(b:integer):integer;
var s,d:integer;
begin s:=1;
      For d:=2 to b div 2 do If b mod d=0 then s:=s+d;
      zbirdelioca:=s;
end;

```

```

procedure TForm1.Button1Click(Sender: TObject);
var n,a,s,b:integer;
begin n:=StrToIntDef(Edit1.Text,1);Edit1.Text:=IntToStr(n);
      For a:=1 to n do
      begin ZbirDelioca(a,b);
            ZbirDelioca(b,s);
            If (s=a)and(a<b) then Memol.Lines.Add(Format('%5d%5d',[a,b]));
      end;
end;

```

```

procedure TForm1.ZbirDelioca(b:integer;var s:integer);
var d:integer;
begin s:=1;
      For d:=2 to b div 2 do If b mod d=0 then s:=s+d;
end;

```

```

procedure TForm1.ZbirDelioca(b,d:integer;var s:integer);
begin If d<2 then s:=1
      else begin ZbirDelioca(b,d-1,s);
            If b mod d=0 then s:=s+d;
      end;
end;

```

Button1Click :

```

      ZbirDelioca(a,a div 2,b);
      ZbirDelioca(b,b div 2,s);

```

4.8.

Edit1KeyPress Edit2KeyPress:

```

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button1.Click;
      If not (key in ['0','1',#8,#128]) then key:=#27
end;
procedure TForm1.Edit2KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button2.Click;
      If not (key in ['0'..'9',#8,#128]) then key:=#27
end;

```



```

(
(
Stack overflow)
OnEnter):

```

```

procedure TForm1.Edit1Enter(Sender: TObject);
begin Edit2.Clear;
end;
procedure TForm1.Edit2Enter(Sender: TObject);
begin Edit1.Clear;
end;

```

*Button1Click**Button2Click:*

```

procedure TForm1.Button1Click(Sender: TObject);
var a:string;
    b,s,i:integer;
begin a:=Edit1.Text;
      s:=1;b:=0;
      For i:=Length(a) downto 1 do
      begin b:=b+StrToInt(a[i])*s;
            s:=s*2;
      end;
      Edit2.Text:=IntToStr(b);
end;
procedure TForm1.Button2Click(Sender: TObject);
var a:string;
    b:integer;
begin b:=StrToIntDef(Edit2.Text,0);
      Edit2.Text:=IntToStr(b);
      a:='';
      While b>0 do
      begin a:=IntToStr(b mod 2)+a;
            b:=b div 2;
      end;
      Edit1.Text:=a;
end;

```

```

(
(
):
procedure TForm1.Dekadni(a:string;s:integer;var d:integer);
begin if length(a)=1
      then d:=d+StrToInt(a)*s
      else begin d:=d+StrToInt(a[Length(a)])*s;
            dekadni(Copy(a,1,Length(a)-1),s*2,d);
      end;
end;
procedure TForm1.Button1Click(Sender: TObject);
var a:string;
    d:integer;
begin a:=Edit1.Text;
      d:=0;
      dekadni(a,1,d);
      Edit2.Text:=IntToStr(d);
end;
(
(
):

```

```

procedure TForm1.Binarni(b:integer;var a:string);
begin If b=0
      then a:=''
      else begin binarni(b div 2,a);
               a:=a+IntToStr(b mod 2);
            end;
end;
procedure TForm1.Button1Click(Sender: TObject);
var a:string;
    b:integer;
begin b:=StrToIntDef(Edit2.Text,0);
      Edit2.Text:=IntToStr(b);
      Binarni(b,a);
      Edit1.Text:=a;
end;

```

4.9.

```

                                Edit1KeyPress Edit2KeyPress:
procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button1.Click;
      If not (key in ['I','V','X','L','C','D','M',#8,#128])
        then key:=#27;
end;
procedure TForm1.Edit2KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button2.Click;
      If not (key in ['0'..'9',#8,#128]) then key:=#27;
end;

```



(**Stack overflow**
OnEnter);

```

procedure TForm1.Edit1Enter(Sender: TObject);
begin Edit2.Clear;
end;
procedure TForm1.Edit2Enter(Sender: TObject);
begin Edit1.Clear;
end;

```

Button2Click:

```

procedure TForm1.Button1Click(Sender: TObject);
var a:string;
begin a:=Edit1.Text;
      If length(a)>0 then
        begin a:=Arapski(a);
              If a=' '
                then ShowMessage('Greska u unosu broja')
                else Edit2.Text:=a;
            end;
end;
procedure TForm1.Button1Click(Sender: TObject);
var a:string;
    b:integer;
begin b:=StrToIntDef(Edit2.Text,1);
      If (b>3999)or(b<1) then b:=3999;
      Edit2.Text:=IntToStr(b);
      Rimski(b,0,a);
      Edit1.Text:=a;
end;

```

```

:
procedure TForm1.Rimski(a,c:integer;var r:string);
var b:integer;
    c1,c2,c3:string;
begin If a>0 then
      begin c:=c+1;

```

Button1Click

```

        case c of
          1 : begin c1:='I';c2:='V';c3:='X';
              end;
          2 : begin c1:='X';c2:='L';c3:='C';
              end;
          3 : begin c1:='C';c2:='D';c3:='M';
              end;
          4 : begin c1:='M';c2:=' ';c3:=' ';
              end;
        end;
      case a mod 10 of
        1 : r:=c1+r;
        2 : r:=c1+c1+r;
        3 : r:=c1+c1+c1+r;
        4 : r:=c1+c2+r;
        5 : r:=c2+r;
        6 : r:=c2+c1+r;
        7 : r:=c2+c1+c1+r;
        8 : r:=c2+c1+c1+c1+r;
        9 : r:=c1+c3+r;
      end;
      Rimski(a div 10,c,r);
    end;
  end;

function TForm1.Arapski(a:string):string;
var i,b:integer;
    g:boolean;
begin g:=false;b:=0;i:=0;
      Repeat i:=i+1;
        case a[i] of
          'M':If b mod 1000=0 then
              If b<3000 then b:=b+1000 else g:=true
              else If b mod 1000=100 then b:=b+800 else g:=true;
          'C':If b mod 100=0 then
              If(b mod 1000<300)or(b mod 1000>400)and(b mod 1000<800)
              then b:=b+100 else g:=true
              else If b mod 100=10 then b:=b+80 else g:=true;
          'X':If b mod 10=0 then
              If(b mod 100<30)or(b mod 100>40)and(b mod 100<80)
              then b:=b+10 else g:=true
              else If b mod 10=1 then b:=b+8 else g:=true;
          'D':If b mod 1000=0 then b:=b+500
              else If b mod 1000=100 then b:=b+300 else g:=true;
          'L':If b mod 100=0 then b:=b+50
              else If b mod 100=10 then b:=b+30 else g:=true;
          'V':If b mod 10=0 then b:=b+5
              else If b mod 10=1 then b:=b+3 else g:=true;
          'I':If(b mod 10<3)or(b mod 10>4)and(b mod 10<8)
              then b:=b+1 else g:=true
          else g:=true;
        end;
      Until i=length(a);
      if g then arapski:=' ' else arapski:=IntToStr(b);
    end;
end;

```

4.10.**n.****Edit1Change:**

```

procedure TForm1.Edit1Change(Sender: TObject);
begin Mem1.Clear;
end;

```

Edit1KeyPress:

```

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button1.Click;
      If not (key in ['0'..'9',#8,#128]) then key:=#27
end;

```

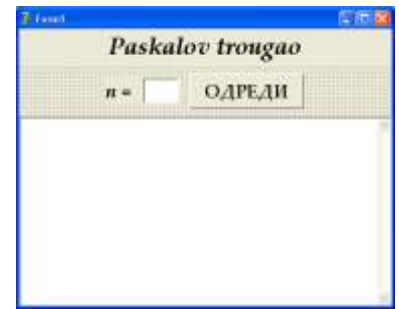
Button1Click:

```

procedure TForm1.Button1Click(Sender: TObject);
var n,p:integer;
begin p:=StrToIntDef(Edit1.Text,0);
      Edit1.Text:=IntToStr(p);
      For n:=0 to p do
        Mem1.Lines.Add(Red(n));
      end;
function TForm1.Red(n:integer):string;
var k:integer;
    a:string;
begin a:='';
      For k:=0 to n do
        a:=a+IntToStr(Trunc(BK(n,k)))+' ';
      red:=a;
      end;
function TForm1.BK(n,k:integer):real;
var i:integer;
    b:real;
begin b:=1;
      For i:=1 to k do
        b:=b*(n-i+1)/i;
      bk:=b;
      end;

function TForm1.BK(n,k:integer):real;
begin If k=0
      then BK:=1
      else BK:=BK(n,k-1)*(n-k+1)/k;
      end;
      :
procedure TForm1.Button1Click(Sender: TObject);
var n,p:integer;
begin p:=StrToIntDef(Edit1.Text,0);
      Edit1.Text:=IntToStr(p);
      For n:=0 to p do
        Mem1.Lines.Add(Red(n));
      end;
function TForm1.Red(n:integer):string;
var k:integer;
    a:string;
begin a:='';
      For k:=0 to n do
        a:=a+Format('%1.0f',[BK(n,k))]+' ';
      red:=a;
      end;
function TForm1.BK(n,k:integer):real;
begin bk:=Fakt(n)/(Fakt(k)*Fakt(n-k));
      end;
function TForm1.Fakt(n:integer):real;
var f:real;
    i:integer;
begin f:=1;
      For i:=1 to n do
        f:=f*i;
      fakt:=f;
      end;
      :
function TForm1.Fakt(n:integer):real;
begin If n=0
      then fakt:=1
      else fakt:=fakt(n-1)*n;
      end;
end;

```



4.11.

n ,

Edit1Change:

```

procedure TForm1.Edit1Change(Sender: TObject);
begin Mem1.Clear;Edit2.Clear;
      Edit3.Clear;Edit4.Clear;
      max:=0;min:=maxint;
end;

```

max min

20,

18,

20

*maxint()***Edit1KeyPress Edit2KeyPress:**

```

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button1.Click;
      If not (key in ['0'..'9',#8,#128]) then key:=#27
end;
procedure TForm1.Edit2KeyPress(Sender: TObject; var Key: Char);
begin If key=#13 then Button2.Click;
      If not (key in ['0'..'9',#8,#128]) then key:=#27
end;

```

```

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13
      then If sender=edit1
            then Button1.Click
            else Button2.Click
      else If not (key in ['0'..'9',#8,#128]) then key:=#27
end;

```

Button1Click:

```

procedure TForm1.Button1Click(Sender: TObject);
begin n:=StrToIntDef(Edit1.Text,1);
      Edit1.Text:=IntToStr(n);
      Edit1Change(sender);
      Edit1.Enabled:=false;Button1.Enabled:=false;
      Edit2.Enabled:=true;Button2.Enabled:=true;
      Edit2.SetFocus;
end;

```

Button2Click:

```

procedure TForm1.Button2Click(Sender: TObject);
var b,z:integer;
begin b:=StrToIntDef(Edit2.Text,0);
      Edit2.Text:=IntToStr(b);
      Mem1.Lines.Add(Edit2.Text);
      n:=n-1;z:=ZbirCifara(b);
      If max<z //
            then begin max:=z;
                    Edit3.Text:=IntToStr(b);
                    end;
      If min>z //
            then begin min:=z;
                    Edit4.Text:=IntToStr(b);
                    end;
      If n=0 //
            then begin Edit2.Enabled:=false;Button2.Enabled:=false;
                    Edit1.Enabled:=true;Button1.Enabled:=true;
                    Edit1.SetFocus;
                    end
end

```



```

        else begin Edit2.Clear;Edit2.SetFocus;
              end;
end;

function TForm1.ZbirCifara(a:integer):integer;
var z:integer;
begin z:=0;
      Repeat z:=z+a mod 10;
            a:=a div 10;
            until a=0;
      zbircifara:=z;
end;

function TForm1.ZbirCifara(a:integer):integer;
begin If a=0
      then zbircifara:=0
      else zbircifara:=ZbirCifara(a div 10)+a mod 10;
end;

```

4.12.

0.

Edit1KeyPress:

```

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13
      then Button1.Click
      else If not (key in ['0'..'9',#8,#128]) then key:=#27
end;

```

Button1Click:

```

procedure TForm1.Button1Click(Sender: TObject);
var b:integer;
begin b:=StrToIntDef(Edit1.Text,0);
      Edit1.Text:=IntToStr(b);
      If b=0
      then begin Edit1.Enabled:=false;Button1.Enabled:=false;
            Button2.Enabled:=true;Button2.SetFocus;
            end
      else begin Mem1.Lines.Add(Edit1.Text);
            n:=n+1;ars:=ars+b;
            Edit2.Text:=Format('%1.5f',[ars/n]);
            If max<b then // odredjivanje najveceg broja
            begin max:=b;
                  Edit3.Text:=IntToStr(b);
                  Edit4.Text:=IntToStr(n);
            end;
            If min>b then // odredjivanje najmanjeg broja
            begin min:=b;
                  Edit5.Text:=IntToStr(b);
                  Edit6.Text:=IntToStr(n);
            end;
            Edit1.Clear;Edit1.SetFocus;
      end;
end;

```

Button2Click:

```

procedure TForm1.Button2Click(Sender: TObject);
begin Mem1.Clear;Edit2.Clear;
      Edit3.Clear;Edit4.Clear;
      Edit5.Clear;Edit6.Clear;
      max:=0;min:=maxint;
      asr:=0;n:=0;

```



```

Button2.Enabled:=false;Button1.Enabled:=true;
Edit1.Enabled:=true;Edit1.SetFocus;
end;

```

FormCreate

```

max, min, asr n:
procedure TForm1.FormCreate(Sender: TObject);
begin max:=0;min:=maxint;
      asr:=0;n:=0;
end;

```

```

var
Form1: TForm1;
max:integer=0;
min:integer=maxint;
asr:integer=0;
n:integer=0;

```

Random

4.13.

100



```

type
niz=array[1..100] of integer;
TForm1 = class(TForm)

```

... n - k - a - :

```

var
Form1: TForm1;
n,k:integer;
a:niz;

```

Edit1Change

```

procedure TForm1.Edit1Change(Sender: TObject);
begin Memol.Clear;Edit2.Clear;Edit3.Clear;
      Edit4.Clear;Edit5.Clear;Edit6.Clear;
end;

```

Edit1KeyPress:

```

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13
      then If sender=edit1
            then Button1.Click
            else Button2.Click
      else If not (key in ['0'..'9',#8,#128]) then key:=#27;
end;

```

```

:
procedure TForm1.Button1Click(Sender: TObject);
begin n:=StrToIntDef(Edit1.Text,10);
      If n>100 then n:=100;
      Edit1.Text:=IntToStr(n);
      Edit1Change(sender);
      Edit1.Enabled:=false;Button1.Enabled:=false;
      Edit2.Enabled:=true;Button2.Enabled:=true;
      k:=0;Edit2.SetFocus;
end;

```

```

:
procedure TForm1.Button2Click(Sender: TObject);
begin k:=k+1;
      a[k]:=StrToIntDef(Edit2.Text,100);
      If a[k]<100 then a[k]:=100;
      Edit2.Text:=IntToStr(a[k]);
      Mem1.Lines.Add(IntToStr(k)+'.'+' '+Edit2.Text);
      If k<n
            then begin Edit2.Clear;Edit2.SetFocus;
                  end
            else begin Edit2.Enabled:=false;Button2.Enabled:=false;
                  Button3.Enabled:=true;Button3.SetFocus;
            end;
end;

```

```

:
procedure TForm1.Button2Click(Sender: TObject);
begin Randomize;
      While k<n do
            begin k:=k+1;
                  a[k]:=Random(900)+100;
                  Mem1.Lines.Add(IntToStr(k)+'.'+' '+IntToStr(a[k]));
            end;
      Button2.Enabled:=false;
      Button3.Enabled:=true;
      Button3.SetFocus;
end;

```

```

      Edit1Change                Edit2.Clear;                Button1Click
      Edit2.Enabled:=true; Edit2.SetFocus;    Button2.SetFocus;
      Button3Click                :

```

```

procedure TForm1.Button3Click(Sender: TObject);
var par,nep,zp,zn,i:integer;
begin par:=0;zp:=0;
      nep:=0;zn:=0;
      For i:=1 to n do
            If Odd(a[i])
                  then begin nep:=nep+1;zn:=zn+a[i]
                          end
            else begin par:=par+1;zp:=zp+a[i]
                  end;
      Edit3.Text:=IntToStr(nep);
      Edit4.Text:=IntToStr(zn);
      Edit5.Text:=IntToStr(par);
      If par>0
            then Edit6.Text:=Format('%1.5f',[zp/par])
            else Edit6.Text:='0';
      Button3.Enabled:=false;Button1.Enabled:=true;
      Edit1.Enabled:=true;Edit1.SetFocus;
end;

```

```

type
  niz=array[1..100] of integer;
  TForm1 = class(TForm)
    ...
var
  Form1: TForm1;
  n,k:integer;
  a:niz;
procedure TForm1.Edit1Change(Sender: TObject);
begin Memol.Clear;Edit2.Clear;
      Edit3.Clear;Edit4.Clear;
end;
procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13
      then Button1.Click
      else If not (key in ['0'..'9',#8,#128]) then key:=#27;
end;
procedure TForm1.Button1Click(Sender: TObject);
begin n:=StrToIntDef(Edit1.Text,10);
      If n>100 then n:=100;
      Edit1.Text:=IntToStr(n);
      Edit1Change(sender);
      Edit1.Enabled:=false;
      Button1.Enabled:=false;
      Button2.Enabled:=true;
      Button2.SetFocus;
end;
procedure TForm1.Button2Click(Sender: TObject);
begin Randomize;
      k:=0;
      While k<n do
      begin k:=k+1;
            a[k]:=Random(900)+100;
            Memol.Lines.Add(IntToStr(k)+' '+IntToStr(a[k]));
      end;
      Button2.Enabled:=false;
      Button3.Enabled:=true;
      Button3.SetFocus;
end;

                                Button3Click                                :

procedure TForm1.Button3Click(Sender: TObject);
var i,j,nz,zc:integer;
begin j:=1;nz:=ZbirCifara(a[j]);
      For i:=2 to 100 do
      begin zc:=ZbirCifara(a[i]);
            If (nz<zc)or(nz=zc)and(a[j]>a[i])
            then begin nz:=zc;j:=i;
                  end;
      end;
      Edit2.Text:=IntToStr(nz);
      Edit3.Text:=IntToStr(a[j]);
      Edit4.Text:=IntToStr(j);
end;

function TForm1.ZbirCifara(a:integer):integer;
begin If a=0
      then zbircifara:=0
      else zbircifara:=ZbirCifara(a div 10)+a mod 10;
end;

```



4.15.

100

```

type
  niz=array[1..100] of integer;
  TForm1 = class(TForm)
    ...
var
  Form1: TForm1;
  n,k: integer;
  a:niz;

procedure TForm1.Edit1Change(Sender: TObject);
begin Memol.Clear;Edit2.Clear;
      Edit3.Clear;Edit4.Clear;
      Edit5.Clear;
end;

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13
      then Button1.Click
      else If not (key in ['0'..'9',#8,#128]) then key:=#27;
end;

procedure TForm1.Button1Click(Sender: TObject);
begin n:=StrToIntDef(Edit1.Text,10);
      If n>100 then n:=100;
      Edit1.Text:=IntToStr(n);
      Edit1Change(sender);
      Edit1.Enabled:=false;
      Button1.Enabled:=false;
      Button2.Enabled:=true;
      Button2.SetFocus;
end;

procedure TForm1.Button2Click(Sender: TObject);
begin Randomize;
      k:=0;
      While k<n do
      begin k:=k+1;
            a[k]:=Random(900)+100;
            Memol.Lines.Add(IntToStr(k)+' '+IntToStr(a[k]));
      end;
      Button2.Enabled:=false;
      Button3.Enabled:=true;
      Button3.SetFocus;
end;

"           "(
:           ,
;           ,
           )
);

procedure TForm1.Button3Click(Sender: TObject);
var i,max,min: integer;
begin max:=1;min:=1;
      For i:=2 to n do
      If a[i]>a[max]
      then max:=i
      else If a[i]<a[min] then min:=i;
      Edit2.Text:=IntToStr(a[max]);
      Edit3.Text:=IntToStr(max);
      Edit4.Text:=IntToStr(a[min]);
      Edit5.Text:=IntToStr(min);
      Button3.Enabled:=false;Button1.Enabled:=true;
      Edit1.Enabled:=true;Edit1.SetFocus;
end;

```





```

type
  niz=array[1..100] of integer;
  TForm1 = class(TForm)
    ...
var
  Form1: TForm1;
  n,k:integer;
  a:niz;
procedure TForm1.Edit1Change(Sender: TObject);
begin Memol.Clear;Edit2.Clear;
      Edit3.Clear;Edit4.Clear;
end;
procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13
      then Button1.Click
      else If not (key in ['0'..'9',#8,#128]) then key:=#27;
end;
procedure TForm1.Button1Click(Sender: TObject);
begin n:=StrToIntDef(Edit1.Text,10);
      If n>100 then n:=100;
      Edit1.Text:=IntToStr(n);
      Edit1Change(sender);
      Edit1.Enabled:=false;
      Button1.Enabled:=false;
      Button2.Enabled:=true;
      Button2.SetFocus;
end;
procedure TForm1.Button2Click(Sender: TObject);
begin Randomize;
      k:=0;
      While k<n do
      begin k:=k+1;
            a[k]:=Random(900)+100;
            Memol.Lines.Add(IntToStr(k)+' '+IntToStr(a[k]));
      end;
      Button2.Enabled:=false;
      Button3.Enabled:=true;
      Button3.SetFocus;
end;
                                Button3Click                                :
procedure TForm1.Button3Click(Sender: TObject);
var i,z,rb:integer;
begin z:=0;
      For i:=1 to n do z:=z+a[i];
      Edit2.Text:=Format('%1.5f',[z/n]);
      rb:=1;
      For i:=2 to n do
        If Abs(a[i]-z/n)<Abs(a[rb]-z/n) then rb:=i;
      Edit3.Text:=IntToStr(rb);
      Edit4.Text:=IntToStr(a[rb]);
      Button3.Enabled:=false;Button1.Enabled:=true;
      Edit1.Enabled:=true;Edit1.SetFocus;
end;
                                '%1.5f'                                ,
                                '%9.5f' (                                ),
                                5                                .
                                (                                ,                                ).

```

```

type
  niz=array[1..100] of integer;
  TForm1 = class(TForm)
    ...
var
  Form1: TForm1;
  n,k:integer;
  a:niz;
procedure TForm1.Edit1Change(Sender: TObject);
begin Memo1.Clear;Edit2.Clear;
      Edit3.Clear;Edit4.Clear;
      Edit5.Clear;
end;
procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13
      then Button1.Click
      else If not (key in ['0'..'9',#8,#128]) then key:=#27;
end;
procedure TForm1.Button1Click(Sender: TObject);
begin n:=StrToIntDef(Edit1.Text,10);
      If n>100 then n:=100;
      Edit1.Text:=IntToStr(n);
      Edit1Change(sender);
      Edit1.Enabled:=false;
      Button1.Enabled:=false;
      Button2.Enabled:=true;
      Button2.SetFocus;
end;
procedure TForm1.Button2Click(Sender: TObject);
begin Randomize;
      k:=0;
      While k<n do
      begin k:=k+1;
            a[k]:=Random(900)+100;
            Memo1.Lines.Add(IntToStr(k)+' . '+IntToStr(a[k]));
      end;
      Button2.Enabled:=false;
      Button3.Enabled:=true;
      Button3.SetFocus;
end;
                                Button3Click                                :
procedure TForm1.Button3Click(Sender: TObject);
var i,nep,zp,zn:integer;
begin zp:=0;zn:=0;nep:=0;
      For i:=1 to n do
        If Odd(a[i])
          then begin zn:=zn+a[i];
                   nep:=nep+1;
                 end
          else zp:=zp+a[i];
      If nep>0
        then Edit2.Text:=Format('%1.5f',[zn/nep])
        else Edit2.Text:='0';
      Edit3.Text:=IntToStr(n-nep);
      Edit4.Text:=IntToStr(zp);
      Button3.Enabled:=false;
      Button1.Enabled:=true;
      Edit1.Enabled:=true;
      Edit1.SetFocus;
end;

```





```

type
  niz=array[1..100] of integer;
  TForm1 = class(TForm)
    ...
var
  Form1: TForm1;
  n,k:integer;
  a:niz;
procedure TForm1.Edit1Change(Sender: TObject);
begin Memo1.Clear;Memo2.Clear;
end;
procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13
      then Button1.Click
      else If not (key in ['0'..'9',#8,#128]) then key:=#27;
end;
procedure TForm1.Button1Click(Sender: TObject);
begin n:=StrToIntDef(Edit1.Text,10);
      If n>100 then n:=100;
      Edit1.Text:=IntToStr(n);
      Edit1Change(sender);
      Edit1.Enabled:=false;
      Button1.Enabled:=false;
      Button2.Enabled:=true;
      Button2.SetFocus;
end;
procedure TForm1.Button2Click(Sender: TObject);
begin Randomize;
      k:=0;
      While k<n do
      begin k:=k+1;
            a[k]:=Random(900)+100;
            Memo1.Lines.Add(IntToStr(k)+' '+IntToStr(a[k]));
            end;
      Button2.Enabled:=false;
      Button4.Enabled:=true;Button5.Enabled:=true;
      Button3.Enabled:=true;Button3.SetFocus;
end;
                                Button3Click, Button4Click Button5Click
procedure TForm1.Button3Click(Sender: TObject);
var i,j,p:integer;
begin For i:=1 to n-1 do
      For j:=i+1 to n do
      If a[i]>a[j]
      then begin p:=a[i];a[i]:=a[j];a[j]:=p;
            end;
      Memo2.Clear;
      For i:=1 to n do
      Memo2.Lines.Add(IntToStr(i)+' '+IntToStr(a[i]));
end;
procedure TForm1.Button4Click(Sender: TObject);
var i,j,p:integer;
begin For i:=1 to n-1 do
      For j:=i+1 to n do
      If a[i]<a[j]
      then begin p:=a[i];a[i]:=a[j];a[j]:=p;
            end;
      Memo2.Clear;
      For i:=1 to n do
      Memo2.Lines.Add(IntToStr(i)+' '+IntToStr(a[i]));
end;

```

```

procedure TForm1.Button5Click(Sender: TObject);
begin Button3.Enabled:=false;Button4.Enabled:=false;
      Button5.Enabled:=false;Button1.Enabled:=true;
      Edit1.Enabled:=true;Edit1.SetFocus;
end;

:

procedure TForm1.Button3Click(Sender: TObject);
begin If sender=button3
      then UrediNiz(0)
      else If sender=button4
            then UrediNiz(1)
            else begin Button3.Enabled:=false;Button4.Enabled:=false;
                      Button5.Enabled:=false;Button1.Enabled:=true;
                      Edit1.Enabled:=true;Edit1.SetFocus;
                    end;
end;

end;

procedure TForm1.UrediNiz(tip:integer);
var i,j,p:integer;
begin For i:=1 to n-1 do
      For j:=i+1 to n do
            If (a[i]>a[j])and(tip=0)or(a[i]<a[j])and(tip=1)
                then begin p:=a[i];a[i]:=a[j];a[j]:=p;
                        end;
      Memo2.Clear;
      For i:=1 to n do
            Memo2.Lines.Add(IntToStr(i)+'.'+' '+IntToStr(a[i]));
end;

```

4.19.

100

```

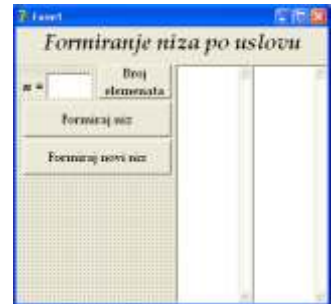
type
  niz=array[1..100] of integer;
  TForm1 = class(TForm)
    ...
var
  Form1: TForm1;
  n,k:integer;
  a,b:niz;
procedure TForm1.Edit1Change(Sender: TObject);
begin Memo1.Clear;Edit2.Clear;
      Edit3.Clear;Edit4.Clear;
      Edit5.Clear;
end;

procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13
      then Button1.Click
      else If not (key in ['0'..'9',#8,#128]) then key:=#27;
end;

procedure TForm1.Button1Click(Sender: TObject);
begin n:=StrToIntDef(Edit1.Text,10);
      If n>100 then n:=100;
      Edit1.Text:=IntToStr(n);
      Edit1Change(sender);
      Edit1.Enabled:=false;Button1.Enabled:=false;
      Button2.Enabled:=true;Button2.SetFocus;
end;

procedure TForm1.Button2Click(Sender: TObject);
begin Randomize;
      k:=0;
      While k<n do
            begin k:=k+1;a[k]:=Random(90)+10;
                  Memo1.Lines.Add(IntToStr(k)+'.'+' '+IntToStr(a[k]));
            end;
end;

```



```

    Button2.Enabled:=false;Button3.Enabled:=true;
    Button3.SetFocus;
end;

                    Button3Click                                :
procedure TForm1.Button3Click(Sender: TObject);
var i,j:integer;
    dodaj:boolean;
begin i:=1;k:=0;
    While i<=n do
    begin dodaj:=true;
        For j:=1 to i-1 do
            If a[i]=a[j] then dodaj:=false;
            If dodaj then begin k:=k+1;b[k]:=a[i];
                            end;
            i:=i+1;
        end;
        For i:=1 to k do
            Memo2.Lines.Add(IntToStr(i)+'.' +IntToStr(b[i]));
        Button3.Enabled:=false;Button1.Enabled:=true;
        Edit1.Enabled:=true;Edit1.SetFocus;
    end;
end;

```

4.20.

100

```

type
    niz=array[1..100] of integer;
    TForm1 = class(TForm)
        ...
    var
        Form1: TForm1;
        n,k:integer;
        a,b:niz;
    procedure TForm1.Edit1Change(Sender: TObject);
    begin Mem1.Clear;Memo2.Clear;Edit2.Clear;
    end;
    procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
    begin If key=#13
        then If sender=edit1
            then Button1.Click
            else Button3.Click
        else If not (key in ['0'..'9',#8,#128]) then key:=#27;
    end;
    procedure TForm1.Button1Click(Sender: TObject);
    begin n:=StrToIntDef(Edit1.Text,10);
        If n>100 then n:=100;
        Edit1.Text:=IntToStr(n);
        Edit1Change(sender);
        Edit1.Enabled:=false;Button1.Enabled:=false;
        Button2.Enabled:=true;Button2.SetFocus;
    end;
    procedure TForm1.Button2Click(Sender: TObject);
    begin Randomize;
        k:=0;
        While k<n do
        begin k:=k+1;
            a[k]:=Random(1000);
            Mem1.Lines.Add(IntToStr(k)+'.' +IntToStr(a[k]));
        end;
        Button2.Enabled:=false;Button3.Enabled:=true;
        Edit2.Enabled:=true;Edit2.SetFocus;
    end;
end;

```



Button3Click, Button4Click Button5Click

Edit2Change,

```

procedure TForm1.Edit2Change(Sender: TObject);
begin Memo2.Clear;
end;

procedure TForm1.Button3Click(Sender: TObject);
var i,j,p:integer;
    dodaj:boolean;
begin k:=StrToIntDef(Edit2.Text,10);
    If k>n then k:=n;
    Edit2.Text:=IntToStr(k);
    For i:=1 to k do b[i]:=a[i]; //
    For i:=k+1 to n do //
    begin dodaj:=false;j:=1;p:=1;
        While j<=k do
        begin If a[i]>b[j] //
            then begin dodaj:=true; //
                If b[j]<b[p] then p:=j; //
            end;
            j:=j+1;
        end;
        If dodaj
        then begin for j:=p to k-1 do b[j]:=b[j+1]; //
            b[k]:=a[i]; //
        end;
    end;
    For i:=1 to k do
        Memo2.Lines.Add(IntToStr(i)+' '+IntToStr(b[i]));
    Edit2.Enabled:=false;
    Button3.Enabled:=false;Button5.Enabled:=true;
    Button4.Enabled:=true;Button4.SetFocus;
end;

procedure TForm1.Button4Click(Sender: TObject);
begin Button4.Enabled:=false;Button5.Enabled:=false;
    Button3.Enabled:=true;Edit2.Enabled:=true;Edit2.SetFocus;
end;

procedure TForm1.Button5Click(Sender: TObject);
begin Button4.Enabled:=false;Button5.Enabled:=false;
    Button1.Enabled:=true;Edit1.Enabled:=true;Edit1.SetFocus;
end;

```

Button5Click

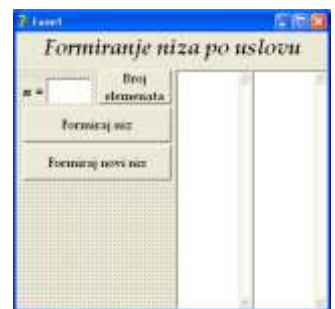
4.21.

100

```

type
    niz=array[1..100] of integer;
    TForm1 = class(TForm)
        ...
    var
        Form1: TForm1;
        n,k:integer;
        a,b:niz;
    procedure TForm1.Edit1Change(Sender: TObject);
    begin Memo1.Clear;Memo2.Clear;
    end;
    procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
    begin If key=#13
        then Button1.Click
        else If not (key in ['0'..'9',#8,#128]) then key:=#27;
    end;
    procedure TForm1.Button1Click(Sender: TObject);
    begin n:=StrToIntDef(Edit1.Text,10);
        If n>100 then n:=100;
        Edit1.Text:=IntToStr(n);

```



```

Edit1Change(sender);
Edit1.Enabled:=false;Button1.Enabled:=false;
Button2.Enabled:=true;Button2.SetFocus;
end;
procedure TForm1.Button2Click(Sender: TObject);
begin Randomize;
k:=0;
While k<n do
begin k:=k+1;a[k]:=Random(900)+100;
Memo1.Lines.Add(IntToStr(k)+' '+IntToStr(a[k]));
end;
Button2.Enabled:=false;Button3.Enabled:=true;
Button3.SetFocus;
end;

```

Button3Click

```

procedure TForm1.Button3Click(Sender: TObject);
var i,p,q,np,pp:integer;
begin np:=0;pp:=1;p:=0;q:=1;
For i:=2 to n do
If a[i-1]<a[i]
then p:=p+1
else begin If np<p
then begin np:=p;pp:=q;
end;
p:=0;q:=i;
end;
For i:=pp to pp+np do
Memo2.Lines.Add(IntToStr(i-pp+1)+' '+IntToStr(a[i]));
Button3.Enabled:=false;Button1.Enabled:=true;
Edit1.Enabled:=true;Edit1.SetFocus;
end;

```

4.22.

(≤100)

```

type
niz=array[1..100] of integer;
TForm1 = class(TForm)
...

```

```

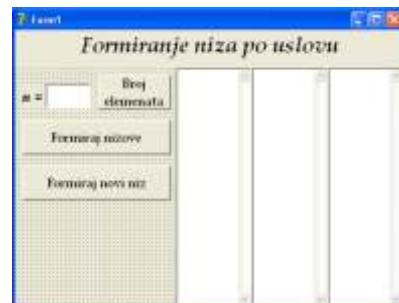
var
Form1: TForm1;
n,k:integer;
a,b:niz;
c:array[1..200] of integer;

```

```

procedure TForm1.Edit1Change(Sender: TObject);
begin Memo1.Clear;Memo2.Clear;Memo3.Clear;
end;
procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13
then Button1.Click
else If not (key in ['0'..'9',#8,#128]) then key:=#27;
end;
procedure TForm1.Button1Click(Sender: TObject);
begin n:=StrToIntDef(Edit1.Text,10);
If n>100 then n:=100;
Edit1.Text:=IntToStr(n);
Edit1Change(sender);
Edit1.Enabled:=false;Button1.Enabled:=false;
Button2.Enabled:=true;Button2.SetFocus;
end;
procedure TForm1.Button2Click(Sender: TObject);
begin Randomize;
k:=0;

```



```

While k<n do
begin k:=k+1;
  a[k]:=Random(900)+100;
  b[k]:=Random(900)+100;
  Memo1.Lines.Add(IntToStr(k)+'.'+IntToStr(a[k]));
  Memo2.Lines.Add(IntToStr(k)+'.'+IntToStr(b[k]));
end;
Button2.Enabled:=false;Button3.Enabled:=true;
Button3.SetFocus;
end;

```

Button3Click

```

procedure TForm1.Button3Click(Sender: TObject);
var i:integer;
begin k:=0;
  For i:=1 to n do
  begin If not Odd(a[i])
    then begin k:=k+1;c[k]:=a[i];
    end;
    If Odd(b[i])
    then begin k:=k+1;c[k]:=b[i];
    end;
  end;
  For i:=1 to k do
  Memo3.Lines.Add(IntToStr(i)+'.'+IntToStr(c[i]));
  Button3.Enabled:=false;Button1.Enabled:=true;
  Edit1.Enabled:=true;Edit1.SetFocus;
end;

```

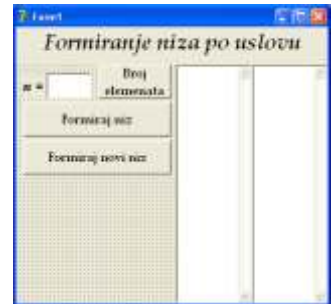
4.23.

100

```

type
  niz=array[1..100] of integer;
  TForm1 = class(TForm)
  ...
var
  Form1: TForm1;
  n,k:integer;
  a,b:niz;
procedure TForm1.Edit1Change(Sender: TObject);
begin Memo1.Clear;Memo2.Clear;
end;
procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
begin If key=#13
  then Button1.Click
  else If not (key in ['0'..'9',#8,#128]) then key:=#27;
end;
procedure TForm1.Button1Click(Sender: TObject);
begin n:=StrToIntDef(Edit1.Text,10);
  If n>100 then n:=100;
  Edit1.Text:=IntToStr(n);
  Edit1Change(sender);
  Edit1.Enabled:=false;Button1.Enabled:=false;
  Button2.Enabled:=true;Button2.SetFocus;
end;
procedure TForm1.Button2Click(Sender: TObject);
begin Randomize;
  k:=0;
  While k<n do
  begin k:=k+1;a[k]:=Random(900)+100;
    Memo1.Lines.Add(Format('%2d',[k])+'.'+IntToStr(a[k]));
  end;
  Button2.Enabled:=false;Button3.Enabled:=true;Button3.SetFocus;
end;

```



4.24.

10 x 10

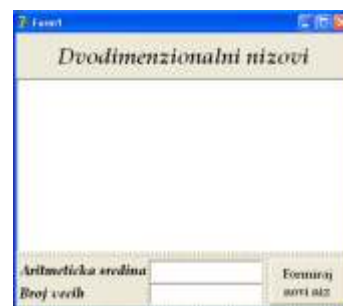
```

type
  niz=array[1..100,1..100] of integer;
  TForm1 = class(TForm)
    ...
var
  Form1: TForm1;
  a:niz;

  FormCreate
  :
  procedure TForm1.FormCreate(Sender: TObject);
  begin Button1.Click;
  end;

  Button1Click
  :
  procedure TForm1.Button1Click(Sender: TObject);
  var i,j,n:integer;
      asr:real;
      red:string;
  begin Randomize; //
        Mem1.Clear;
        red:='1 2 3 4 5 6 7 8 9 10';
        Mem1.Lines.Add(Format('%43s',[red]));
        For i:=1 to 10 do
        begin red:=Format('%2d',[i])+ ' ';
              For j:=1 to 10 do
              begin a[i,j]:=Random(90)+10;
                    red:=red+Format('%4d',[a[i,j]]);
              end;
              Mem1.Lines.Add(red);
        end;
        n:=0;asr:=0; //
        For i:=1 to 10 do
          For j:=1 to 10 do
            asr:=asr+a[i,j]/100;
          Edit1.Text:=Format('%7.2f',[asr]);
        For i:=1 to 10 do
          For j:=1 to 10 do
            If a[i,j]>asr then n:=n+1;
          Edit2.Text:=Format('%4d',[n]);
        end;
end;

```



4.25.

10 x 10

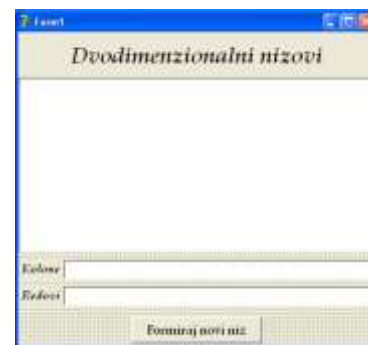
```

type
  niz=array[1..100,1..100] of integer;
  TForm1 = class(TForm)
    ...
var
  Form1: TForm1;
  a:niz;

  FormCreate
  :
  procedure TForm1.FormCreate(Sender: TObject);
  begin Button1.Click;
  end;

  Button1Click
  :

```



```

procedure TForm1.Button1Click(Sender: TObject);
var i,j,r,k:integer;
    red:string;
begin Randomize;
    Mem1.Clear;
    red:='1  2  3  4  5  6  7  8  9  10';
    Mem1.Lines.Add(Format('%46s',[red]));
    For i:=1 to 10 do
    begin red:=Format('%5d',[i])+ ' ';
        For j:=1 to 10 do
        begin a[i,j]:=Random(90)+10;
            red:=red+Format('%4d',[a[i,j]]);
        end;
        Mem1.Lines.Add(red);
    end;
    Edit1.Clear;Edit2.Clear;
    For i:=1 to 10 do
    begin r:=0;k:=0;
        For j:=1 to 10 do
        begin r:=r+a[i,j];k:=k+a[j,i];
        end;
        Edit1.Text:=Edit1.Text+Format('%4d',[r]);
        Edit2.Text:=Edit2.Text+Format('%4d',[k]);
    end;
end;

```

4.26.

10 x 10

```

type
    niz=array[1..100,1..100] of integer;
    TForm1 = class(TForm)
        ...
    var
        Form1: TForm1;
        a:niz;

```

FormCreate

```

procedure TForm1.FormCreate(Sender: TObject);
begin Button1.Click;
end;

```

Button1Click

```

procedure TForm1.Button1Click(Sender: TObject);
var i,j,g,s:integer;
    red:string;
begin Randomize;Mem1.Clear;
    red:='1  2  3  4  5  6  7  8  9  10';
    Mem1.Lines.Add(Format('%43s',[red]));
    For i:=1 to 10 do
    begin red:=Format('%2d',[i])+ ' ';
        For j:=1 to 10 do
        begin a[i,j]:=Random(90)+10;
            red:=red+Format('%4d',[a[i,j]]);
        end;
        Mem1.Lines.Add(red);
    end;
    g:=0;s:=0;
    For i:=2 to 10 do
        For j:=1 to i-1 do g:=g+a[i,j];
    For i:=1 to 9 do
        For j:=1 to 10-i do s:=s+a[i,j];
    Edit1.Text:=IntToStr(g);
    Edit2.Text:=IntToStr(s);
end;

```

