

PENGULANGAN FOR - DO

Pertemuan 10



PERULANGAN FOR BERSARANG

- Perulangan bersarang adalah perulangan yang berbeda di dalam perulangan yang lainnya.
- Perulangan yang lebih dalam akan diproses terlebih dahulu sampai habis, kemudian perulangan yang lebih luar baru akan akan bertambah
- Mengerjakan perulangan yang lebih dalam lagi mulai dari nilai awalnya dan seterusnya.



CONTOH 1:

Program ForBersarang;

Deklarasi

I,J : integer

Algoritma

For I = 1 to 5 Do

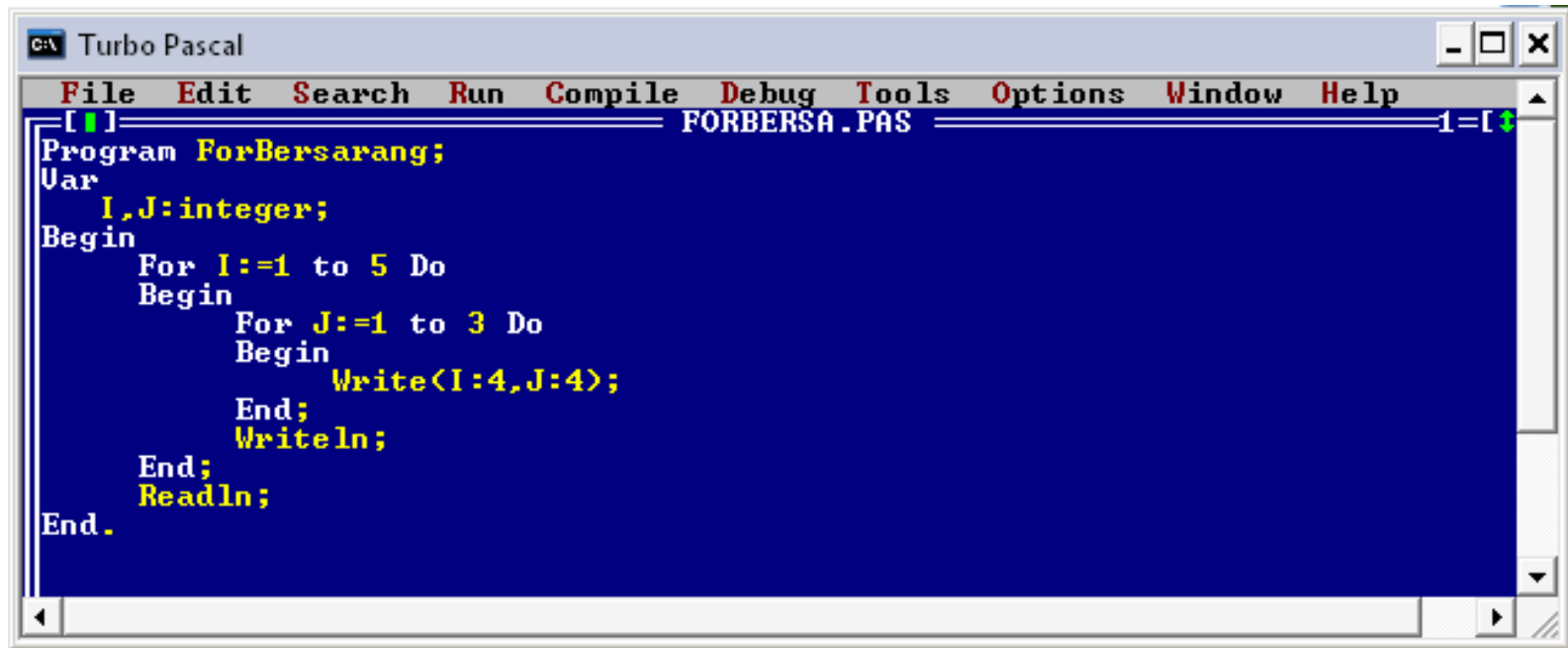
For J = 1 to 3 Do

Write(I,J)

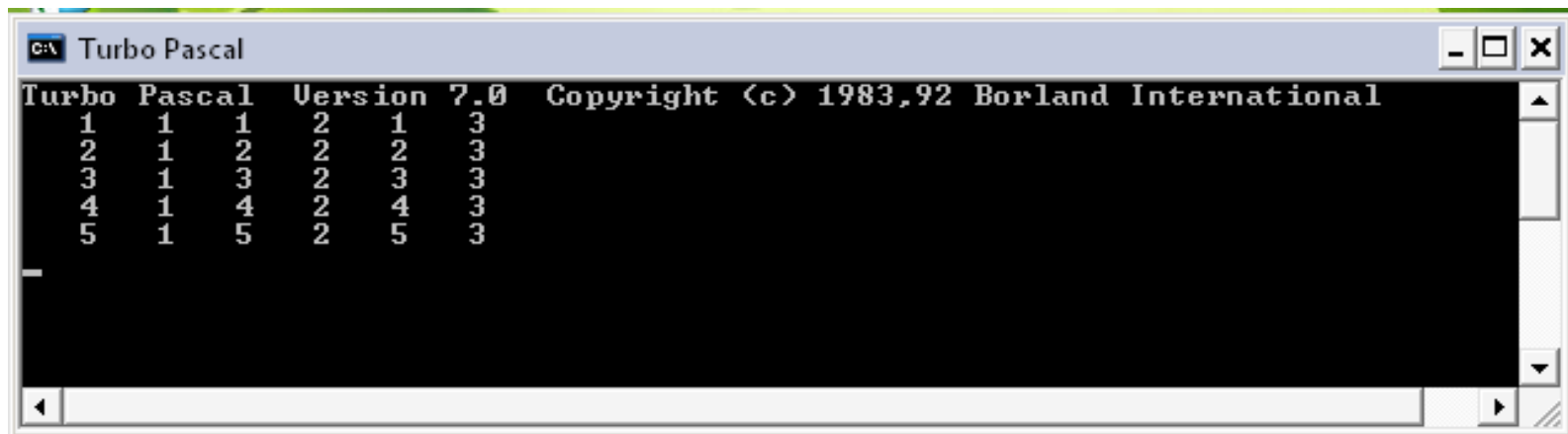
Endfor

Endfor

CONTOH



```
File Edit Search Run Compile Debug Tools Options Window Help
[ ] FORBERSA.PAS 1=[
Program ForBersarang;
Var
  I,J:integer;
Begin
  For I:=1 to 5 Do
  Begin
    For J:=1 to 3 Do
    Begin
      Write(I:4,J:4);
    End;
    Writeln;
  End;
  Readln;
End.
```



```
Turbo Pascal Version 7.0 Copyright (c) 1983,92 Borland International
1 1 1 2 1 3
2 1 2 2 2 3
3 1 3 2 3 3
4 1 4 2 4 3
5 1 5 2 5 3
```



CONTOH 3:

Program Bintang

Deklarasi

x,y : integer

Algoritma

for x = 1 to 5 do

for y = 1 to x do

write('*')

writeln

endfor

endfor

End Algoritma

```
[1]
Program Bintang1;
Uses crt;
var
    x,y : integer;
begin
    clrscr;
    for x := 1 to 5 do
    begin
        for y := 1 to x do
            write('*', ' ');
            writeln;
        end;
        readln;
    end.
end.
```

* 9:32

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```
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```



CONTOH 3:

Program Bintang2

Deklarasi

x,y : integer

Algoritma

for x = 1 to 5 do

for y = x to 5 do

write('*')

endfor

endfor

End Algoritma

```
Program Bintang2;  
uses crt;  
var  
    x,y : integer;  
begin  
    clrscr;  
    for x := 1 to 5 do  
        begin  
            for y := x to 5 do  
                write('*',' ');  
                writeln;  
            end;  
            readln;  
        end;  
end._
```

14:5

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```
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```



CONTOH 4

Program Pagar

Deklarasi

x,y : integer

Algoritma

for x = 1 to 5 do

for y = 1 to 5 do

if (x mod 2 <> 0) then

write('*')

else

write('#')

endif

writeln

endfor

endfor

End Algoritma

Free Pascal IDE

File Edit Search Run Compile Debug Tools Options Window Help

pagar.pas

```
Program Pagar;  
uses crt;  
var  
    x,y : integer;  
begin  
    clrscr;  
    for x := 1 to 5 do  
    begin  
        for y := 1 to 5 do  
        begin  
            if (x mod 2 <> 0) then  
                write('*', ' ');  
            else  
                write('#', ' ');  
            end;  
            writeln;  
        end;  
    end;  
end.
```

19:5

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Free Pascal IDE

```
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```

