

TUGAS PRAKTIKUM  
PEMROGRAMAN ALGORITMA DAN PEMROGRAMAN  
“PENERAPAN NESTED FOR”

Hafizh Habibullah

2511531002

Informatika (B)



DEPARTEMEN INFORMATIKA  
FAKULTAS TEKNOLOGI INFORMASI  
UNIVERSITAS ANDALAS  
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## A. Pseudocode

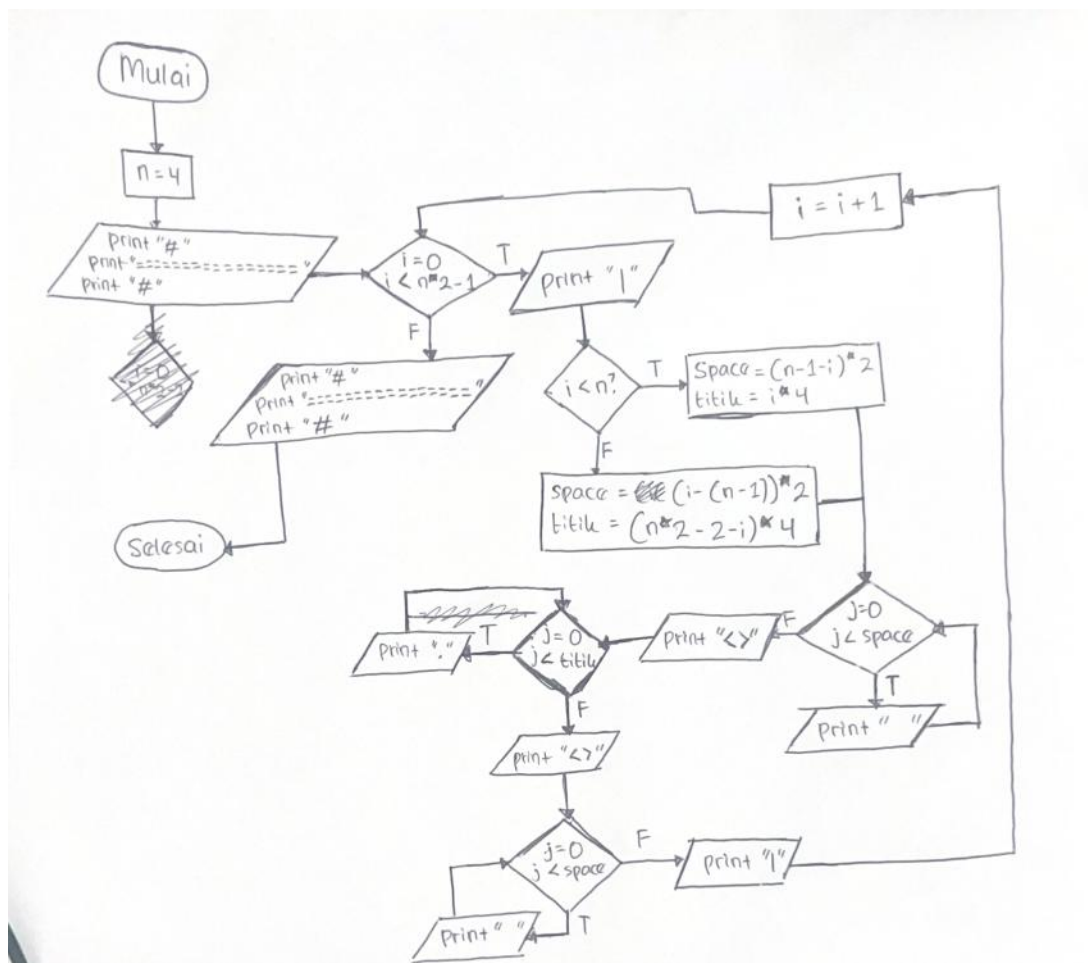
<b>Judul</b> TugasNestedFor {membuat pola yang diminta sesuai tugas}
<b>Deklarasi:</b> n, space, titik, i, j $\rightarrow$ int;
<b>Pseudocode</b> set n $\leftarrow$ 4 Print “#” Print “=====” Println “#” For i $\leftarrow$ 0; i < (n * 2 – 1) Print “ ” If (i < n) then Space $\leftarrow$ (n – 1 – i) * 2 Titik $\leftarrow$ i * 4 Else Space $\leftarrow$ (i – (n – 1)) * 2 Titik $\leftarrow$ (n * 2 – 2 – i) * 4 Endif For j $\leftarrow$ 0; j < space Print “ “ Endfor Print “<” For j $\leftarrow$ 0; j < titik Print “.” Endfor Print “>” For j $\leftarrow$ 0; j < space Print “ “

```

Endfor
Println "|"
Endfor
Print "#"
Print "===== "
Print "#"

```

## B. Flowchart



### C. Source Code

```
1 package pekan5;
2
3 public class TugasNestedFor {
4     public static void main(String[] args) {
5         int n = 4;
6
7         System.out.print("#");
8         System.out.print("=====");
9         System.out.println("#");
10
11     for (int i = 0; i < n * 2 - 1; i++) {
12         System.out.print("|");
13
14         int space, titik;
15
16         if (i < n) {
17             space = (n - 1 - i) * 2;
18             titik = i * 4;
19         } else {
20             space = (i - (n - 1)) * 2;
21             titik = (n * 2 - 2 - i) * 4;
22         }
23
24         for (int j = 0; j < space; j++) {
25             System.out.print(" ");
26         }
27
28         System.out.print("<>");
29         for (int j = 0; j < titik; j++) {
30             System.out.print(".");
31         }
32         System.out.print("<>");
33
34         for (int j = 0; j < space; j++) {
35             System.out.print(" ");
36         }
37
38         System.out.println("|");
39     }
40
41     System.out.print("#");
42     System.out.print("=====");
43     System.out.println("#");
44 }
45 }
```

#### D. Screenshot Output

