

TUGAS PRAKTIKUM  
PEMROGRAMAN ALGORITMA DAN PEMROGRAMAN  
“PENERAPAN NESTED FOR”

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TAHUN 2025

## A. Pseudocode

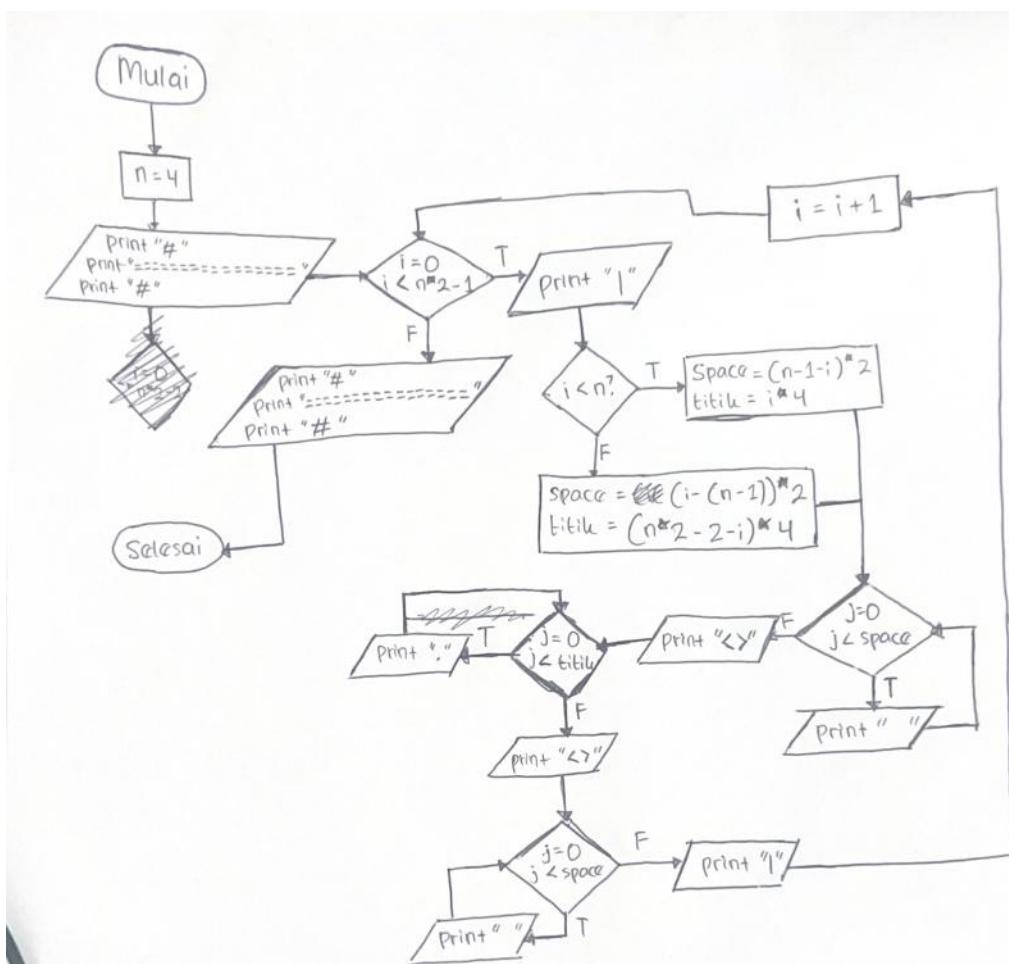
<b>Judul</b> TugasNestedFor {membuat pola yang diminta sesuai tugas}
<b>Deklarasi:</b> n, space, titik, i, j → int;
<b>Pseudocode</b> set n ← 4 Print "#" Print "======" Println "#" For i ← 0; i < (n * 2 - 1) Print " " If (i < n) then Space ← (n - 1 - i) * 2 Titik ← i * 4 Else Space ← (i - (n - 1)) *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

```

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

```
#=====#
| <><>
| <>....<>
| <>.....<>
|<>.....<>
| <>.....<>
| <>....<>
|   <><>
#=====#
```