

C\_45  $\Rightarrow$  Nested do while loop in C

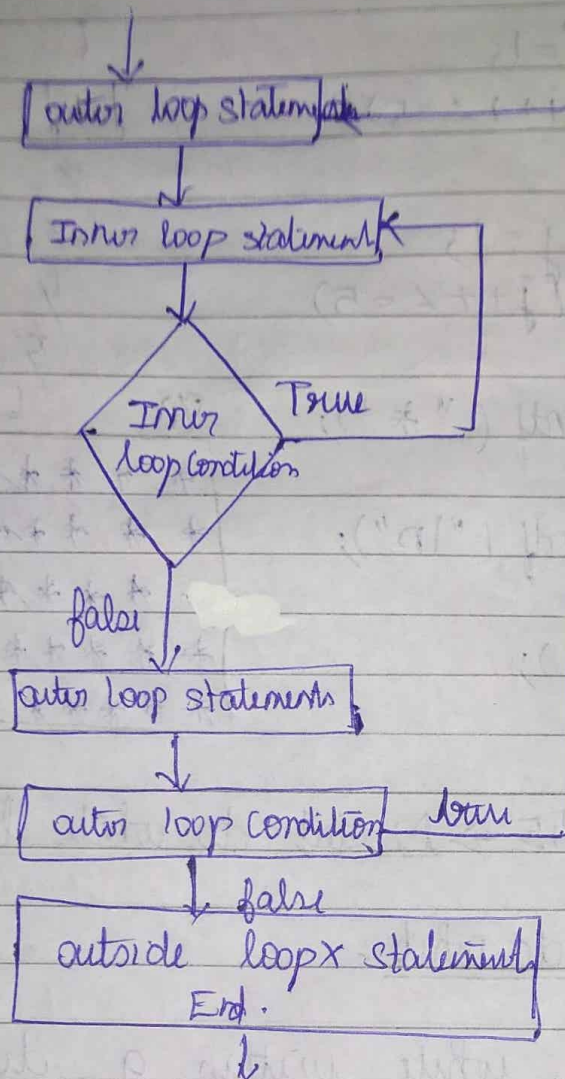
Nested do while:

\* do while within a do while loops.

Syntax:

```
do
{ //outer loop statements;
  do
  {
    Inner loop statements;
  } while (condition);
} while (condition);
```

## Flow chart:-



## Program ①

```
int i=1, j=3;
```

```
do
```

```
{
```

```
do
```

```
{
```

```
printf("%d", j);
```

```
j--;
```

```
} while (j > 0);
```

```
i++;
```

i	j
1	3
2	2
3	1
4	0

o/p

3	2	1	2
0	3	1	4

```
printf ("%d", i);  
3 while (i < 4);
```

## Program (2)

```
int i = 1, j = 3;
```

```
do  
{
```

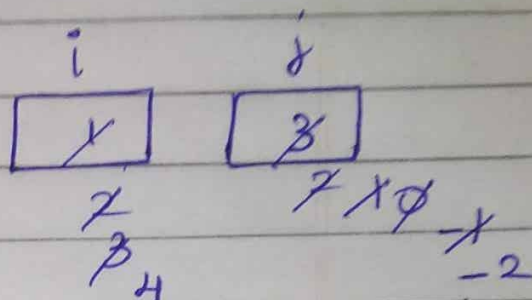
```
do  
{
```

```
printf ("%d", --j);
```

```
} while (j > 0);
```

```
printf ("%d", i++);
```

```
} while (i < 4);
```



Q/P

2	1	0	1
-1	2	-2	3

## CODE 1:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /* 1 - nested do while loop */
4  int main()
5  {
6      int i=1,j=3;
7      do
8      {
9          do
10         {
11             printf("%d |",j);
12             j--;
13         }while(j>0);
14         i++;
15         printf("%d ",i);
16     }while(i<4);
17     getch();
18 }
19
```

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```
3 2 1 2 0 3 -1 4
```

## CODE 2:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /* 2 - nested do while loop */
4  int main()
5  {
6      int i=1,j=3;
7      do
8      {
9          do
10         {
11             printf("%d ",--j);
12             }while(j>0);
13             printf("%d ",i++);
14             }while(i<4);
15     getch();
16 }
17 |
```

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```
2 1 0 1 -1 2 -2 3
```