



Programiz
C Online Compiler

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Online C Compiler

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sabari8883/operatingsystem

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Interactive C Course

main.c

Run

```

1 #include <stdio.h>
2 #define MAX_PARTITIONS 10
3 #define MAX_PROCESSES 10
4 int partitions[MAX_PARTITIONS];
5 int processes[MAX_PROCESSES];
6 void worstFit(int n, int m) {
7     int allocation[m];
8     for (int i = 0; i < m; i++) {
9         allocation[i] = -1;
10    }
11    for (int i = 0; i < m; i++) {
12        int worstIndex = -1;
13        for (int j = 0; j < n; j++) {
14            if (partitions[j] >= processes[i]) {
15                if (worstIndex == -1 || partitions[j] >
16                    partitions[worstIndex]) {
17                    worstIndex = j;
18                }
19            }
20        }
21        if (worstIndex != -1) {
22            allocation[i] = worstIndex;
23            partitions[worstIndex] -= processes[i];
24        }
25    }
26    printf("\nProcess No.\tProcess Size\tPartition No.\n");
27    for (int i = 0; i < m; i++) {
28        printf("    %d\t\t%d\t\t%d\n", i+1, processes[i], allocation[i]);
29    }
30    }
31    }
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98    }
99    }
100   }
```

Output

Clear

```

/tmp/TkuwtSu7U7.o
Process No. Process Size Partition No.
1 100 Not Allocated
2 50 4
3 30 1
4 120 Not Allocated
5 35 Not Allocated
```



C Online Compiler



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Interactive C Course



main.c



JS



php



```

24     }
25     printf("\nProcess No.\tProcess Size\tPartition No.\n");
26     for (int i = 0; i < m; i++) {
27         printf("    %d\t\t%d\t\t\t", i+1, processes[i]);
28         if (allocation[i] != -1) {
29             printf("%d\n", allocation[i]+1);
30         } else {
31             printf("Not Allocated\n");
32         }
33     }
34 }
35 int main() {
36     int n = 4;
37     int m = 5;
38     partitions[0] = 40;
39     partitions[1] = 10;
40     partitions[2] = 30;
41     partitions[3] = 60;
42     processes[0] = 100;
43     processes[1] = 50;
44     processes[2] = 30;
45     processes[3] = 120;
46     processes[4] = 35;
47     worstFit(n, m);
48
49     return 0;
50 }
51

```

Output

Clear

```
/tmp/TkuwtSu7U7.o
```

Process	No.	Process Size	Partition No.
1	100	Not Allocated	
2	50	4	
3	30	1	
4	120	Not Allocated	
5	35	Not Allocated	