
 **OnlineGDB** beta

online compiler and debugger for c/c++

Welcome, **yamini** 

multi threading

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


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main.c

```
8
9 #include <stdio.h>
10 #include <stdlib.h>
11 #include <pthread.h>
12 #include <semaphore.h>
13 #include <unistd.h>
```

input

```
value: 4 sum 4
value: 2 sum 6
value: 6 sum 12
value: 1 sum 13
value: 2 sum 15
value: 3 sum 18
Total: 18

...Program finished with exit code 0
Press ENTER to exit console.
```

main.c

```
9 #include<stdio.h>
10 void firstFit(int blockSize[], int m, int processSize[], int n)
11 {
12     int i, j;
13     int allocation[n];
14     for(i = 0; i < n; i++)
15     {
16         allocation[i] = -1;
17     }
18     for (i = 0; i < n; i++)
19     {
20         for (j = 0; j < m; j++)
21         {
22             if (blockSize[j] >= processSize[i])
23             {
24                 allocation[i] = j;
25                 blockSize[j] -= processSize[i];
26                 break;
27             }
28         }
29     }
30     printf("\nProcess No.\tProcess Size\tBlock no.\n");
31     for (int i = 0; i < n; i++)
32     {
33         printf(" %i\t\t\t", i+1);
34         printf("%i\t\t\t\t", processSize[i]);
35         if (allocation[i] != -1)
36             printf("%i", allocation[i] + 1);
37         else
38             printf("Not Allocated");
39         printf("\n");
40     }
```

input

main.c

```

24
25         allocation[i] = j;
26
27         blockSize[j] -= processSize[i];
28
29         break;
30     }
31 }
32 }
33 }
34 printf("\nProcess No.\tProcess Size\tBlock no.\n");
35 for (int i = 0; i < n; i++)
36 {
37     printf(" %i\t\t\t", i+1);
38     printf("%i\t\t\t\t", processSize[i]);
39     if (allocation[i] != -1)
40         printf("%i", allocation[i] + 1);
41     else
42         printf("Not Allocated");
43     printf("\n");
44 }
45 }
46 int main()
47 {
48     int m;
49     int n;
50     int blockSize[] = {100, 500, 200, 300, 600};
51     int processSize[] = {212, 417, 112, 426};
52     m = sizeof(blockSize) / sizeof(blockSize[0]);
53     n = sizeof(processSize) / sizeof(processSize[0]);
54     firstFit(blockSize, m, processSize, n);
55     return 0 ;
56 }
57
58

```

input

Press ENTER to exit console