

12. Write a C program to implement the best-fit algorithm and allocate the memory block to each process.

Test Case:

Memory partitions: 300 KB, 600 KB, 350 KB, 200 KB, 750 KB, and 125 KB (in order),

Show the outcome for the test case with the best-fit algorithms to place processes of size 115 KB, 500 KB, 358 KB, 200 KB, and 375 KB (in order)

(globals)

TDM-GCC 4.9.2 64-bit Release

Project Classes Debug Untitled1 [*] best fit algorithm.cpp

```
1  #include<stdio.h>
2  #include<process.h>
3  int main()
4  {
5      int a[20],p[20],i,j,n,m;
6      printf("Enter no of Blocks.\n");
7      scanf("%d",&n);
8      for(i=0;i<n;i++)
9      {
10         printf("Enter the %dst Block size:",i);
11         scanf("%d",&a[i]);
12     }
13     printf("Enter no of Process.\n");
14     scanf("%d",&m);
15     for(i=0;i<m;i++)
16     {
17         printf("Enter the size of %dst Process:",i);
18         scanf("%d",&p[i]);
19     }
20     for(i=0;i<n;i++)
21     {
22         for(j=0;j<m;j++)
23         {
24             if(p[j]<=a[i])
25             {
26                 printf("The Process %d allocated to %d\n",j,a[i]);
27                 p[j]=10000;
28                 break;
29             }
30         }
31         for(j=0;j<m;j++)
32         {
33             if(p[j]!=10000)
34             {
35                 printf("The Process %d is not allocated\n",j);
36             }
37         }
38     }
39 }
```

Compiler Resources Compile Log Debug Find Results

1 Col: 18 Sel: 0 Lines: 39 Length: 975 Insert Done parsing in 0.281 seconds

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C:\Users\hp\Documents\best fit algorithm.exe

Enter no of Blocks.

6

Enter the 0st Block size:300

Enter the 1st Block size:600

Enter the 2st Block size:350

Enter the 3st Block size:200

Enter the 4st Block size:750

Enter the 5st Block size:125

Enter no of Process.

5

Enter the size of 0st Process:115

Enter the size of 1st Process:500

Enter the size of 2st Process:358

Enter the size of 3st Process:200

Enter the size of 4st Process:375

The Process 0 allocated to 300

The Process 1 allocated to 600

The Process 3 allocated to 350

The Process 2 allocated to 750

The Process 4 is not allocated

Process exited after 79.48 seconds with return value 0

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