

(globals)

Project C firstfit.c

```
1 #include<stdio.h>
2 void main()
3 {
4     int bsize[10], psize[10], bno, pno, flags[10], allocation[10], i, j;
5     for(i = 0; i < 10; i++)
6     {
7         flags[i] = 0;
8         allocation[i] = -1;
9     }
10    printf("Enter no. of blocks: ");
11    scanf("%d", &bno);
12    printf("Enter size of each block: ");
13    for(i = 0; i < bno; i++)
14        scanf("%d", &bsize[i]);
15    printf("Enter no. of processes: ");
16    scanf("%d", &pno);
17    printf("Enter size of each process: ");
18    for(i = 0; i < pno; i++)
19        scanf("%d", &psize[i]);
20    for(i = 0; i < pno; i++)
21        for(j = 0; j < bno; j++)
22            if(flags[j] == 0 && bsize[j] >= psize[i])
23            {
24                allocation[j] = i;
25                flags[j] = 1;
26                break;
27            }
28    printf("\nBlock no.\ttsize\t\tprocess no.\t\ttsize");
29    for(i = 0; i < bno; i++)
30    {
31        printf("\n%d\t\t%d\t\t", i+1, bsize[i]);
32        if(flags[i] == 1)
33            printf("\t\t\t\t\t", allocation[i]+1, psize[allocation[i]]);
34        else
35            printf("Not allocated");
36    }
37 }
```

Enter no. of blocks: 5

Enter size of each block: 4 3 6 8 9

Enter no. of processes: 4

Enter size of each process: 3 2 8 6

| Block no. | size | process no.   | size |
|-----------|------|---------------|------|
| 1         | 4    | 1             | 3    |
| 2         | 3    | 2             | 2    |
| 3         | 6    | 4             | 6    |
| 4         | 8    | 3             | 8    |
| 5         | 9    | Not allocated |      |

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Process exited after 30.43 seconds with return value 5

Press any key to continue . . .