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Question 1

```
#include <stdio.h>
int main()
{
    int a[10], b[10], a1, b1, flags[10], all[10];
    int i, j;
    printf("\n|+|+|+Memory management"
           "\n Scheme -"
           "\n First Fit\n");
    for (i = 0; i < 10; i++)
    {
        flags[i] = 0;
        all[i] = -1;
    }
    printf("Enter number of block:");
    scanf("%d", &a1);
    printf("\nEnter the size of each block:\n");
    for (i = 0; i < a1; i++)
    {
        printf("Block no. %d: ", i);
        scanf("%d", &a[i]);
    }
    printf("\nEnter no. of Processes:");
    scanf("%d", &b1);
    printf("\nEnter size of each process:\n");
    for (i = 0; i < b1; i++)
    {
        printf("Process no. %d: ", i);
        scanf("%d", &b[i]);
    }
    for (i = 0; i < b1; i++)
    {
        for (j = 0; j < a1; j++)
        {
            if (flags[j] == 0 && a[j] >= b[i])
            {
                all[j] = i;
                flags[j] = 1;
            }
        }
    }
}
```

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```

    break;
}
printf("\nBlock no. %d size %d process no. %d size %d",
    i, a[i], i, a[i]);
for (i = 0; i < a; i++)
{
    printf("%d %d", a[i],
        b[a[i][i]]);
}
else
    printf("Not allocated");
}
printf("\n");
}

```

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C:\Users\sharika sharma\OneDrive\Documents\os.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools Window Help

2008-GCC 4.8.2 64-bit 32-bit

os.cpp

```
7  * Scheme ->
8  * First Fit
9  for (i = 0; i < n; i++)
10 {
11     flags[i] = 0;
12     all[i] = -1;
13 }
14 printf("Enter number of blocks: ");
15 scanf("%d", &n);
16 printf("\nEnter size of each process:\n");
17 for (i = 0; i < n; i++)
18 {
19     printf("Block no. %d: ", i);
20     scanf("%d", &size[i]);
21 }
22 }
```

Memory Management Scheme - First Fit

Enter number of blocks: 3

Enter the size of each block:

Block no.0: 5

Block no.1: 2

Block no.2: 7

Enter no. of processes: 2

Enter size of each process:

Process no.0: 1

Process no.1: 4

Block no.	size	process no.	size
0	5	1	1
1	2	2	Not allocated
2	7	1	4

Process exited after 25.51 seconds with return value 0
Press any key to continue . . .

Shorten compiler paths