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Subject - Operating System

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Ques1. Write a c Program code for Worst Fit Memory
Management Scheme.

Solution :-   Code :-

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

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```c
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;
break ;
}
printf ("\n Block no.\t size \t\t"
" process no. \t \t size );
for (i=0; i< a1; i++)
{
printf ("\n %d \t\t %d \t\t",
i+1, a [i]);
if (flag [i] == 1 )
{
printf (" %d \t\t\t %d ", all [i]+1, b[all [i]]);
}
else
printf (" Not allocated ");
}
printf ("\n");
}
```

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```c
2
3                                          On
4                          Code, Compile,
5      Write your code in this editor
6
7      ***************************
8
9      |
10     #include <stdio.h>
11     int main()
12 -   {
13     int a[10], b[10], a1, b1, flag
14     int i, j;
15     printf("\n\t\t\tMemory Managem
16     " Scheme -"
17     " First Fit\n");
18     for (i = 0; i < 10; i++)
19 -   {
20     flags[i] = 0;
21     all[i] = -1;
22     }
```

input

```
                        Memory Manage
ment 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                 proce
ss no.             size
1                  5                        1    1
2                  2                        Not a
llocated
3                  7                        2    4


...Program finished with exit code 0
```