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Q1.

Algorithm

Step 1:- Start
Step 2:- Input memory blocks & process with sizes.
Step 3:- Initialize all memory blocks as free
Step 4:- Start by picking each process and find the maximum block size that can be assigned to current process i.e, find max(block size[1], block size[2], ... block size[n]) > process size[current], if found then assign it do be the current process.
Step 5:- If not then leave that process and keep checking the further process
Step 6:- Stop

Coding

```
#include <stdio.h>
#include <conio.h>
#define max 25
{
int frag[max], b[max], i,j, nb,nf, temp, high=0;
static int bf[max], ff[max];
clrscr();
printf("\n Memory Management Scheme - Worst
        Fit");
printf("\n Enter the number of files:");
scanf("%d", &nf);
printf("\n Enter the number of blocks:");
scanf("%d", &nb);
printf("\n Enter the size of the blocks:-\n");
for(i=1; i<=nb; i++)
{
printf("Block %d:", i);
scanf("%d", &b[i]);
}
printf("Enter the size of the files:-\n");
for(i=1; i<nf; i++)
{
printf("File %d:", i);
scanf("%d", &ff[i]);
}
for(i=1; i<nf; i++)
{
for(j=1; j<=nb; j++)
{
```

```
for if (bf[j] != 1) // if bf[j] is not allocated
{
temp = b[j] - f[i];
if(temp >=0)
if (high < temp)
{
 ff[i] = j;
 high = temp;
}
}
frag[i] = high;
bf[ff[i]] = 1
high = 0;
}
printf("\n File_no:\t File_size:\t Block_no:\t
\t Block_size:\t Fragement");
for(i=1; i<=nf; i++)
printf("\n%d\t\t %d\t\t %d\t\t %d\t\t %d", i, f[i], ff[i], bff[ff[i]], frag[i]);
getch();
}
```

Output

```
Enter the no. of blocks: 3
Enter the no of files: 2

Enter the size of the blocks:-
Block 1: 5
Block 2: 2
Block 3: 7
```

Pavithra

Enter the size of the files:- (4)

File 1: 1

File 2: 4

File_no:	File_size:	Block_no:	Block_size	Fr
1	1	1	5	4
2	4	3	7	3

Pratika

```
       Memory Management Scheme - First Fit
Enter the number of blocks:3
Enter the number of files:2

Enter the size of the blocks:-
Block 1:5
Block 2:2
Block 3:7
Enter the size of the files :-
File 1:1
File 2:4

File_no:        File_size :     Block_no:       Block_size:     Fragement
1               1               1               5               4
2               4               3               7               3

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