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Q1. Worst Fit Memory Management Scheme

Source Code

```
#include<stdio.h>
int main()
{
  int blocks[50], files[50], frag[50], i,j,b,f, temp, bf[50],
  ff[50], highest=0;
  printf("\nEnter the number of blocks : ");
  scanf("%d", &b);
  printf("Enter the number of files : ");
  scanf("%d", &f);
  printf("\nEnter the size of the blocks -\n");
  for(i=1; i<=b; i++)
  {
      printf("Block %d:", i);
      scanf("%d", &blocks[i]);
  }
  printf("Enter the size of the files -\n");
  for(i=1; i<=f; i++)
  {
      printf("File %d:", i);
      scanf("%d", &files[i]);
  }
  for(i=1; i<=f; i++)
  {
      for(j=1; j<=b; j++)
      {
          if(bf[j]!=1)
          {
              temp=blocks[j]-files[i];
```

```
        if (temp>=0)
          if (highest<temp)
          {
             ff[i]=j;
             highest=temp;
          }
        }
      }
      frag[i]=highest;
      bf[ff[i]]=1;
      highest=0;
    }
    printf("\nFile no.\tFile size\tBlock no.\tBlock size\t
            Fragments");
    for(i=1; i<=f; i++)
    {
      printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d",i,files[i],
              ff[i],blocks[ff[i]],frag[i]);
    }
    return 0;
}
```

input

```
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      Fragments
1               1               3               7               6
2               4               1               5               1

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