S.No: 9	Exp. Name: ***Write a program to Implementation of Contiguous allocation technique :- Worst-Fit***	Date:

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Aim:

Write a program to Implementation of Contiguous allocation technique :- Worst-Fit

Source Code:

worsrFitAlgorithm.c

```
#include<stdio.h>
#include<conio.h>
#define max 25
void main()
{
   int frag[max],b[7],f[max],i,j,nb,nf,temp,highest=0;
   static int bf[max],ff[max];
   printf("Enter the number of blocks: ");
   scanf("%d",&nb);
   printf("Enter the number of files: ");
   scanf("%d",&nf);
   printf("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",&f[i]);
   }
   for(i=1;i<=nf;i++)
   {
      for(j=1;j<=nb;j++)
      {
         if(bf[j]!=1)
         {
            temp = b[j]-f[i];
            if(temp>0)
            if(highest<temp)
            {
               ff[i]=j;
               highest=temp;
            }
         }
      }
      frag[i]=highest;
      bf[ff[i]]=1;
      highest=0;
   }
   printf("File_no\tFile_size\tBlock_no\tBlock_size\tFragement\n");
   for(i=1;i<=nf;i++)
   {
      printf("%d\t%d\t%d\t%d\t%d\n",i,f[i],ff[i],b[ff[i]],frag[i]);
```

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```
    }
}
```


Execution Results - All test cases have succeeded!

Test Case - 1

User Output

```
Enter the number of blocks:  4
Enter the number of files:  3
Enter the size of the blocks 5
Block 1:  5
Block 2:  4
Block 3:  3
Block 4:  5
Enter the size of the files 2
File 1:  2
File 2:  9
File 3:  4
File_no File_size       Block_no        Block_size      Fragement
1       2       1       5       3
2       9       0       0       0
3       4       4       5       1
```

Test Case - 2

User Output

```
Enter the number of blocks:  5
Enter the number of files:  7
Enter the size of the blocks 2
Block 1:  2
Block 2:  6
Block 3:  4
Block 4:  8
Block 5:  12
Enter the size of the files 36
File 1:  36
File 2:  14
File 3:  25
File 4:  4
File 5:  36
File 6:  12
File 7:  24
File_no File_size       Block_no        Block_size      Fragement
1       36      0       0       0
2       14      0       0       0
3       25      0       0       0
4       4       5       12      8
5       36      0       0       0
6       12      0       0       0
7       24      0       0       0
```