Q1) Worst Fit Memory Management

```c
# include <stdio.h>
# include <conio.h>
# define max 25
void max ()
{
  int frag max[], b[max], f[max], i, j, nb, nf, temp,
  highest = 0;
  static int bf[max], ff[max];
  clrscr ();

  printf ("\n\t Memory Management Scheme - Worst Fit ");
  printf ("\n Enter the number of blocks :");
  scanf("%d", &nb);
  printf (" Enter the number of files :");
  scanf ("%d," &nf);
  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);
```

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(Answer Sheet for Online Examination Aug. 2021)

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Subject Name: Operating System   Subject Code: PBI-202   Page No. 2

```c
    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 ("\nFile_no:\tFile_size :\tBlock_no:\t Block_size:\tFragment")
    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], b[ff[i]], frag[i]);
getch();
}
```

```
              Memory Management Scheme - Worst 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:     Fragment
1               1               3               7               6
2               4               1               5               1
```