

Graphic Era Hill University, Dehradun  
[Answer sheet for online examination Aug. 2021]  
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Course BSCIT Sem 2nd section A Subject code PBI202  
Subject name O.S. End term Practical Page no, 2, 3.

Q1. worst fit

```
#include <stdio.h>
#define max 20
void main()
{
    int block[max], file[max], i, j, nb, nf, temp, At;
    highest = 0;
    int bf[max], ff[max];
    printf("\nEnter the number of blocks: ");
    scanf("%d", &nb);
    printf("\nEnter the number of files: ");
    scanf("%d", &nf);
    printf("\nEnter the size of the blocks: \n");
    for (i = 1; i <= nb; i++)
    {
        printf("Block %d: ", i);
        scanf("%d", &block[i]);
    }
}
```

```

printf("Enter the size of the files :- \n");
for (i=1; i<=nf; i++)
{
    printf("File %d:", i);
    scanf("%d", &file[i]);
}
for (i=1; i<=nf; i++)
{
    for (j=1; j<=nb; j++)
    {
        if (bf[j] != 1)
        {
            temp = block[j] - file[i];
            if (temp >= 0)
            {
                if (highest < temp)
                {
                    ff[i] = j;
                    highest = temp;
                }
            }
        }
    }
    bf[ff[i]] = 1;
    highest = 0;
}
printf(" \nfile-no: %d File-size: %d Block-no: %d\n", i, file[i], ff[i], block[ff[i]]);

```

```
for (i = 1; i < n + 1; i++)  
    printf("%d | %d | %d | %d", i, file[i],  
           ff[i], blockEff[i]);
```

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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 2:2

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

terminated with exit code 0