Graphic Era Hill University, Dehradun

Name : Ashish Panwar

Univ. Roll No : 2023039

Student ID : 20051089

Course : B.SC. [IT]

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Subject Name : Operating System

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Ans ⇒ ①

```c
#include<stdio.h>
main ()
{
    int bsize[10], psize[10], bno, flags[10], allocation[10],
    i,j;
    for(i=0; i<10; i++)
    {
        flags[i]=0;
        allocation[i]=-1;
    }
    printf("Enter no. of blocks : ");
    scanf("%d", &bno);
    printf("\n Enter size of each block:");
    for(i=0; i<bno; i++)
        scanf("%d", &bsize[i]);
    printf("\nEnter no. of processes:");
    scanf("%d", &pno);
```

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```c
printf("\nEnter size of each process :");
for(i=0; i<pno; i++)
    scanf("%d", &psize[i]);
for(i=0; i<pno; i++)
    for(j=0; j<bno; j++)
        if(flags[j]==0 && bsize[j] >= psize[i])
        {
            allocation[j]=i;
            flags[j]=1;
            break;
        }
printf("\nBlock no.\tsize\t|\tProcess no.\t
                            \tsize");
    for(i=0; i<bno; i++)
    {
    printf("\n %d \t|\t %d \t\t", i+1, bsize[i]);
    if(flags[i]==1)
        printf("%d \t|\t\t %d ", allocation[i]
                        +1, psize[allocation[i]]);
    else
        printf("Not allocated");
    }
}
```

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```
C:\Users\ASHISH PANWAR\Documents\neeeeeee.exe

Enter no. of blocks: 4

Enter size of each block: 10
15
20
25

Enter no. of processes: 4

Enter size of each process: 12
16
20
14

Block no.         Size            Process no.             Size
1                 10              Not allocated
2                 15              1                       12
3                 20              2                       16
4                 25              3                       20
_____
Process exited after 77.82 seconds with return value 0
Press any key to continue . . .
```