

AIM:

To write a c program to implement best fit algorithm for memory management.

ALGORITHM:

1. Start the process
2. Declare the size
3. Get the number of processes to be inserted
4. Allocate the first hole that is big enough searching
5. Start at the beginning of the set of holes
6. If not start at the hole that is sharing the pervious first fit search end
7. Compare the hole
8. if large enough then stop searching in the procedure
9. Display the values
10. Stop the process

PROGRAM:

```
#include<stdio.h>
#include<process.h>
void main()
{
    int a[20],p[20],i,j,n,m;
    printf("Enter no of Blocks.\n");
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
        printf("Enter the %dst Block size:",i);
        scanf("%d",&a[i]);
    }
    printf("Enter no of Process.\n");
    scanf("%d",&m);
    for(i=0;i<m;i++)
    {
        printf("Enter the size of %dst Process:",i);
        scanf("%d",&p[i]);
    }
    for(i=0;i<n;i++)
    {
        for(j=0;j<m;j++)
        {
            if(p[j]<=a[i])
            {
                printf("The Process %d allocated to %d\n",j,a[i]);
                p[j]=10000;
                break;
            }
        }
    }
    for(j=0;j<m;j++)
    {
        if(p[j]!=10000)
```

```

        {
            printf("The Process %d is not allocated\n",j);
        }
    }
}

```

OUTPUT:

Enter no of Blocks.

5

Enter the 0st Block size:500

Enter the 1st Block size:400

Enter the 2st Block size:300

Enter the 3st Block size:200

Enter the 4st Block size:100

Enter no of Process.

5

Enter the size of 0st Process:100

Enter the size of 1st Process:350

Enter the size of 2st Process:400

Enter the size of 3st Process:150

Enter the size of 4st Process:200

The Process 0 allocated to 500

The Process 1 allocated to 400

The Process 3 allocated to 200

The Process 2 is not allocated

The Process 4 is not allocated