

Name \Rightarrow Subham Singh

Roll no \Rightarrow 2023106

Student ID = 20051066

Section \Rightarrow B

Course \Rightarrow BSC IT

Date \Rightarrow 27/08/2021

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

    printf("\n\tMemory Management Scheme - worst Fit");
    printf("\n\tEnter the number of blocks:");
    scanf("%d", &nb);
    printf("Enter the number of files:");
    scanf("%d", &nf);
    printf("\n\tEnter the size of the blocks\n");
    for (i = 1; i <= nb; i++)
    {
        printf("Block %d:", i);
        scanf("%d", &b[i]);
    }
}
```

```

Print f ("Enter the Size of the files: \n");
for (i=1; i<=nf; i++)
{
    Print f ("file %d: ", i);
    Scan f ("%d", &f[i]);
}

for (i=1; i<=nf; i++)
{
    for (j=1; j<=nb; j++)
    {
        if (bf[j] != 1) // if bf[j] is not allocated
        {
            temp = b[j] - f[i];
            if (temp >= 0)
            {
                if (highest < temp)
                {
                    f[f[i]] = j;
                    highest = temp;
                }
            }
        }
        frag[i] = highest;
        bf[f[i]] = 1;
        highest = 0;
    }
}

f[f[i]] = j;
highest = temp;
}

```

[illegible]

Q2

```
#include <stdio.h>
int main()
{
    int queue[20], n, head, i, j, k, seek = 0, max, diff;
    temp, queue[1][20], queue[20], temp1 = 0;
    float avg;

    printf("Enter the max range of disk\n");
    scanf("%d", &head);

    printf("Enter the initial head position\n");
    scanf("%d", &head);

    printf("Enter the size of queue request\n");
    scanf("%d", &n);

    scanf("Enter the queue of disk positions to be
    scanf("%d", &n);

    printf("Enter the size of queue request\n");
    scanf("%d", &n);
    for (i = 1; i < n; i++)
    {
        scanf("%d", &temp);
        if (temp >= head)
        {
            queue[temp] = temp;
            temp1++;
        }
    }
}
```

```

else
{
    queue2[temp2] = temp;
    temp2++;
}
}

for (i = 0; i < temp1 - 1; i++)
{
    for (j = i + 1; j < temp1; j++)
    {
        if (queue1[i] > queue1[j])
        {
            temp = queue1[i];
            queue1[i] = queue1[j];
            queue1[j] = temp;
        }
    }
}

for (i = 1, j = 0; j < temp1; i++, j++)
{
    queue1[i] = queue1[j];
    queue1[j] = max;
    queue1[i + 1] = 0;
}

for (i = temp1 + 3, j = 0; j < temp2; i++, j++)
{
    queue1[i] = queue2[j];
    queue1[0] = head;
}

```



```

for (j=0; j<=n+1; j++)
{
    diff = abs(queue[j+1] - queue[j]);
    seek += diff;
    printf("Disk head moves from %d  
to %d with seek.  
%d\n", queue[j], queue[j+1], diff);
}
printf("Total seek time is %d\n", seek);
avg = seek / (float)n;
printf("Average seek time is %f\n", avg);
return 0;

```