



BestFit.c new 1

```

1  #include<stdio.h>
2  #include<conio.h>
3  #define max 25
4  void main()
5  {
6
7      printf("\nDeveloper Vitul Chauhan\n\t");
8
9      int frag[max],b[max],f[max],i,j,nb,nf,temp,lowest=10000;
10     static int bf[max],ff[max];
11
12     printf("\nEnter the number of blocks:");
13     scanf("%d",&nb);
14     printf("Enter the number of files:");
15     scanf("%d",&nf);
16     printf("\nEnter the size of the blocks:-\n");
17     for(i=1;i<=nb;i++)
18     {
19         printf("Block %d:",i);
20         scanf("%d",&b[i]);
21     }
22     printf("Enter the size of the files :-\n");
23     for(i=1;i<=nf;i++)
24     {
25         printf("File %d:",i);
26         scanf("%d",&f[i]);
27     }
28     for(i=1;i<=nf;i++)
29     {
30         for(j=1;j<=nb;j++)
31         {
32             if(bf[j]!=1)
33             {
34                 temp=b[j]-f[i];
35                 if(temp>=0)
36                 if(lowest>temp)
37                 {
38                     ff[i]=j;
39                     lowest=temp;
40                 }

```

C:\Windows\System32\cmd.exe - BestFit

Microsoft Windows [Version 10.0.18363.720]
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C:\Users\cakka\OneDrive\Desktop>gcc BestFit.c

C:\Users\cakka\OneDrive\Desktop>BestFit

Developer Vitul Chauhan

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	2	2	1
2	4	1	5	1



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```

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11
12     printf("\nEnter the number of blocks:");
13     scanf("%d",&nb);
14     printf("Enter the number of files:");
15     scanf("%d",&nf);
16     printf("\nEnter the size of the blocks:-\n");
17     for(i=1;i<=nb;i++)
18     {
19         printf("Block %d:",i);
20         scanf("%d",&b[i]);
21     }
22     printf("Enter the size of the files :-\n");
23     for(i=1;i<=nf;i++)
24     {
25         printf("File %d:",i);
26         scanf("%d",&f[i]);
27     }
28     for(i=1;i<=nf;i++)
29     {
30         for(j=1;j<=nb;j++)
31         {
32             if(bf[j]!=1)
33             {
34                 temp=b[j]-f[i];
35                 if(temp>=0)
36                 if(lowest>temp)
37                 {
38                     ff[i]=j;
39                     lowest=temp;
40                 }
41             }
42         }
43     }

```

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Enter the number of blocks:3

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Block 1:5

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Enter the size of the files :-

File 1:1

File 2:4

File No	File Size	Block No	Block Size	Fragment
1	1	2	2	1
2	4	1	5	1



new 1 x Mft.c x

```

1  #include<stdio.h>
2  #include<conio.h>
3  int main(void)
4  {
5      printf("\nDeveloper Vitul Chauhan\n\t");
6      int ms, bs, nob, ef,n, mp[10],tif=0;
7      int i,p=0;
8
9      printf("Enter the total memory available (in Bytes) -- ");
10     scanf("%d",&ms);
11     printf("Enter the block size (in Bytes) -- ");
12     scanf("%d", &bs);
13     nob=ms/bs;
14     ef=ms - nob*bs;
15     printf("\nEnter the number of processes -- ");
16     scanf("%d",&n);
17     for(i=0;i<n;i++)
18     {
19         printf("Enter memory required for process %d (in Bytes)-- ",i+1);
20         scanf("%d",&mp[i]);
21     }
22     printf("\nNo. of Blocks available in memory -- %d",nob);
23     printf("\n\nPROCESS\tMEMORY REQUIRED\tALLOCATED\tINTERNAL FRAGMENTATION");
24     for(i=0;i<n && p<nob;i++)
25     {
26         printf("\n %d\t\t%d",i+1,mp[i]);
27         if(mp[i] > bs)
28             printf("\t\tNO\t\t---");
29         else
30         {
31             printf("\t\tYES\t\t%d",bs-mp[i]);
32             tif = tif + bs-mp[i];
33             p++;
34         }
35     }
36     if(i<n)
37         printf("\nMemory is Full, Remaining Processes cannot be accomodated");
38     printf("\n\nTotal Internal Fragmentation is %d",tif);
39     printf("\nTotal External Fragmentation is %d",ef);
40     getch();

```

C:\Windows\System32\cmd.exe - Mft

Microsoft Windows [Version 10.0.18363.720]

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C:\Users\cakka\OneDrive\Desktop\MEMORY MANAGEMENT TECHNIQUE\MFT>gcc Mft.c -o Mft

C:\Users\cakka\OneDrive\Desktop\MEMORY MANAGEMENT TECHNIQUE\MFT>Mft

Developer Vitul Chauhan

Enter the total memory available (in Bytes) -- 1000

Enter the block size (in Bytes) -- 300

Enter the number of processes -- 5

Enter memory required for process 1 (in Bytes)-- 275

Enter memory required for process 2 (in Bytes)-- 400

Enter memory required for process 3 (in Bytes)-- 290

Enter memory required for process 4 (in Bytes)-- 293

Enter memory required for process 5 (in Bytes)-- 100

No. of Blocks available in memory -- 3

PROCESS	MEMORY REQUIRED	ALLOCATED	INTERNAL FRAGMENTATION
1	275	YES	25
2	400	NO	---
3	290	YES	10
4	293	YES	7

Memory is Full, Remaining Processes cannot be accomodated

Total Internal Fragmentation is 42

Total External Fragmentation is 100



Mvt.c

```

1  #include<stdio.h>
2
3  #include<conio.h>
4
5  int main(void)
6
7  {
8
9  printf("\nDevlopoer Vitul Chauhan \n ");
10
11  int ms,mp[10],i, temp,n=0;
12
13  char ch = 'y';
14
15
16
17  printf("\nEnter the total memory available (in Bytes)-- ");
18  scanf("%d",&ms);
19
20  temp=ms;
21
22  for(i=0;ch=='y';i++,n++)
23  {
24
25
26  printf("\nEnter memory required for process %d (in Bytes) -- ");
27  scanf("%d",&mp[i]);
28
29  if(mp[i]<=temp)
30
31
32  {
33
34  printf("\nMemory is allocated for Process %d ",i+1);
35
36  temp = temp - mp[i];
37
38  }
39
40  else

```

C:\Windows\System32\cmd.exe - a

C:\Users\cakka\OneDrive\Desktop>gcc Mvt.c

C:\Users\cakka\OneDrive\Desktop>a

Devlopoer Vitul Chauhan

Enter the total memory available (in Bytes)-- 1000

Enter memory required for process 1 (in Bytes) -- 400

Memory is allocated for Process 1

Do you want to continue(y/n) -- y

Enter memory required for process 2 (in Bytes) -- 275

Memory is allocated for Process 2

Do you want to continue(y/n) -- y

Enter memory required for process 3 (in Bytes) -- 550

Memory is Full

Total Memory Available -- 1000

PROCESS	MEMORY ALLOCATED
1	400
2	275

Total Memory Allocated is 675

Total External Fragmentation is 325



WorstFit.c

```

1  #include<stdio.h>
2  #include<conio.h>
3  #define max 25
4  void main()
5  {
6      printf("\n\tDeveloper Vitul Chauhan\n\t");
7      int frag[max],b[max],f[max],i,j,nb,nf,temp;
8      static int bf[max],ff[max];
9
10     printf("\n\tMemory Management Scheme - First Fit");
11     printf("\n\tEnter the number of blocks:");
12     scanf("%d",&nb);
13     printf("Enter the number of files:");
14     scanf("%d",&nf);
15     printf("\n\tEnter the size of the blocks:-\n");
16     for(i=1;i<=nb;i++)
17     {
18         printf("Block %d:",i);
19         scanf("%d",&b[i]);
20     }
21     printf("Enter the size of the files :-\n");
22     for(i=1;i<=nf;i++)
23     {
24         printf("File %d:",i);
25         scanf("%d",&f[i]);
26     }
27     for(i=1;i<=nf;i++)
28     {
29         for(j=1;j<=nb;j++)
30         {
31             if(bf[j]!=1)
32             {
33                 temp=b[j]-f[i];
34                 if(temp>=0)
35                 {
36                     ff[i]=j;
37                     break;
38                 }
39             }
40         }

```

C:\Windows\System32\cmd.exe - WorstFit

Microsoft Windows [Version 10.0.18363.720]

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C:\Users\cakka\OneDrive\Desktop>gcc WorstFit.c

C:\Users\cakka\OneDrive\Desktop>WorstFit

Developer Vitul Chauhan

Memory Management Scheme - First 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:	Fragement
1	1	1	5	4
2	4	3	7	3