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Ans-1> Code for Worst Fit Memory management

```
#include <stdio.h>
int main()
{
printf("\n\t\t\t Memory Management"
                "Worst fit");
int i, j, nblocks, nfiles, temp, top = 0;
int frag[10], blocks[10], files[10];
static int block-arr[10], file-arr[10];
printf("\n Enter the Total Number" "of BLOCKS:");
scanf("%d", &nblocks);
printf("\n Enter the Total size of the"
                "BLOCKS:\n");
  for(i= 0; i< nblocks; i++)
{
  printf("BLOCK No. %d:\t", i+1);
   scanf("%d", &blocks[i]);
}
  printf("Enter the size of the" "Files:\n");
  for(i=0; i< nfiles; i++)
  {
  printf("File No. %d:\t", i+1);
```

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```
Scanf("%d", &files[i]);
}
 for(i=0;i<nfiles ;i++)
{
 for (j=0; j<nblocks; j++)
{
  if (block_arr[j] != 1)
{
  temp = blocks[j] - files[i];
  if (temp >=0)
{
  if(top <temp)
{
   file_arr[i] = j;
    top = temp;
}}}
 frag[i] = top;
  block_arr[file_arr[i]] = 1;
   top = 0;
}}
printf("\nFile Number \tFile Size\t"
        "Block Number\t Block size\t Fragment");
 for (i=0; i<nfiles ;i++)
```

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```
{
printf ("\n%d\t\t%d\t\t%d\t\t%d\t\t%d",
            i, files[i], file_arr[i],
          blocks[file_arr[i]], frag[i]);
  }
   printf ("\n");
   return 0;
}
```

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```
                    Memory Management - Worst Fit
Enter the Total Number of Blocks: 3
Enter the Total Number of Files: 2

Enter the Size of the Blocks:
Block No.1:     5
Block No.2:     2
Block No.3:     7
Enter the Size of the Files:
File No.1:      1
File No.2:      4

File Number     File Size       Block Number    Block Size      Fragment
0               1               2               7               6
1               4               0               5               0

--------------------------------
Process exited after 32.34 seconds with return value 0
Press any key to continue . . .
```