//MFT MEMORY MANAGEMENT TECHNIQUE

#include<stdio.h>

main()

{

int ms, bs, nob, ef,n, mp[10],tif=0;

int i,p=0;

printf("Enter the total memory available (in Bytes) -- ");

scanf("%d",&ms);

printf("Enter the block size (in Bytes) -- ");

scanf("%d", &bs);

nob=ms/bs;

ef=ms - nob\*bs;

printf("\nEnter the number of processes -- ");

scanf("%d",&n);

for(i=0;i<n;i++)

{

printf("Enter memory required for process %d (in Bytes)-- ",i+1);

scanf("%d",&mp[i]);

}

printf("\nNo. of Blocks available in memory -- %d",nob);

printf("\n\nPROCESS\tMEMORY REQUIRED\t ALLOCATED\tINTERNAL FRAGMENTATION");

for(i=0;i<n && p<nob;i++)

{

printf("\n %d\t\t%d",i+1,mp[i]);

if(mp[i] > bs)

printf("\t\tNO\t\t---");

else

{

printf("\t\tYES\t%d",bs-mp[i]);

tif = tif + bs-mp[i];

p++;

}

}

if(i<n)

printf("\nMemory is Full, Remaining Processes cannot be accomodated");

printf("\n\nTotal Internal Fragmentation is %d",tif);

printf("\nTotal External Fragmentation is %d",ef);

getch();

}