OPERATING SYSTEM - CS23431

EXP 10(B)

FIRST FIT

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PROGRAM:

#include<stdio.h> int main(){ int n1; printf("Enter memory block size: "); scanf("%d",&n1); int mem[n1]; printf("Enter value of memory blocks: "); for(int i=0;i<n1;i++){ scanf("%d",&mem[i]);

} int n2; printf("Enter process block size: "); scanf("%d",&n2); int p[n2]; printf("Enter values of process blocks: "); for(int i=0;i<n2;i++){ scanf("%d",&p[i]);

} int frag[n1],alloc[n2],emp[n1],allocsize[n2]; for(int i=0;i<n1;i++){ emp[i]=1;

}

for(int i=0;i<n2;i++){ alloc[i]=-1;

} for(int i=0;i<n2;i++){ for(int j=0;j<n1;j++){ if(emp[j] && mem[j]>=p[i]){

alloc[i]=j; allocsize[i]=mem[j]; frag[i]=mem[j]-p[i]; emp[j]=0;

break;

}

}

}

printf("FileNo\tFilesize\tBlockNo\tBlocksize\tFragment\t\n"); for(int i=0;i<n2;i++)

{ printf("%d\t%d\t%d\t%d\t%d\n",i,p[i],alloc[i],allocsize[i],frag[i]); }

}

OUTPUT:

