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# PROGRAM TO IMPLEMENT MEMORY ALLOCATION METHODS - BEST FIT

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**CODE:**

#include<stdio.h>

#include<curses.h>

#include <stdlib.h>

#define max 25

void main() {

int frag[max], b[max], f[max], i, j, nb, nf, temp, lowest = 10000;

static int bf[max], ff[max];

system("clear");

printf("\nEnter the number of blocks:");

scanf("%d", & nb);

printf("Enter the number of files:");

scanf("%d", & nf);

printf("\nEnter the size of the blocks:-\n");

for (i = 1; i <= nb; i++) {

printf("Block %d:", i);

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

}

printf("Enter the size of the files :-\n");

for (i = 1; i <= nf; i++) {

printf("File %d:", i);

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

}

for (i = 1; i <= nf; i++) {

for (j = 1; j <= nb; j++) {

if (bf[j] != 1) {

temp = b[j] - f[i];

if (temp >= 0)

if (lowest > temp) {

ff[i] = j;

lowest = temp;

}

}

}

frag[i] = lowest;

bf[ff[i]] = 1;

lowest = 10000;

}

printf("\nFile No\tFile Size \tBlock No\tBlock Size\tFragment");

for (i = 1; i <= nf && ff[i] != 0; i++)

printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d", i, f[i], ff[i], b[ff[i]], frag[i]);

getch();

printf("\n");

}

**OUTPUT:**

