

```

//Best Fit
#include <stdio.h>
#define max 25

int main()
{
    int frag[max], b[max], f[max], i, j, nb, nf, temp, lowest = 10000;
    static int bf[max], ff[max];
    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]);
    }
}
/*

```

OUTPUT

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
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1	1	2	1	
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2	4	1	5	1
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