Exp:36

Code:

#include <stdio.h>

#include <stdlib.h>

int main() {

int f[50], p, st, len, j, c, k, a;

// Initialize all blocks to 0 (unallocated)

for(int i = 0; i < 50; i++) {

f[i] = 0;

}

printf("Enter how many blocks already allocated: ");

scanf("%d", &p);

printf("Enter blocks already allocated: ");

for(int i = 0; i < p; i++) {

scanf("%d", &a);

if(a >= 0 && a < 50) {

f[a] = 1;

} else {

printf("Block number %d is out of range and will be ignored.\n", a);

}

}

while(1) {

printf("Enter index starting block and length: ");

scanf("%d%d", &st, &len);

k = len;

if(st < 0 || st >= 50) {

printf("%d starting block is out of range \n", st);

continue;

}

if(f[st] == 0) {

for(j = st; j < (st + k) && j < 50; j++) {

if(f[j] == 0) {

f[j] = 1;

printf("%d-------->%d\n", j, f[j]);

} else {

printf("%d Block is already allocated \n", j);

k++;

}

}

} else {

printf("%d starting block is already allocated \n", st);

}

printf("Do you want to enter more files (Yes - 1 / No - 0)? ");

scanf("%d", &c);

if(c == 0) {

break;

}

}

return 0;

}

Output:

