# Topic 13: 13. Construct a C program for implementation the various memory allocation strategies.

#include <stdio.h>  
  
int main() {  
 int blockSize[10], processSize[10], allocation[10], m, n;  
 scanf("%d%d", &m, &n);  
 for (int i = 0; i < m; i++) scanf("%d", &blockSize[i]);  
 for (int i = 0; i < n; i++) scanf("%d", &processSize[i]);  
 for (int i = 0; i < n; i++) allocation[i] = -1;  
 for (int i = 0; i < n; i++) {  
 for (int j = 0; j < m; j++) {  
 if (blockSize[j] >= processSize[i]) {  
 allocation[i] = j;  
 blockSize[j] -= processSize[i];  
 break;  
 }  
 }  
 }  
 return 0;  
}