CONTIGUOUS ALLOCATION

```
#include <stdio.h>
#include <stdlib.h>
#define MAX BLOCKS 100
int main() {
  int start, length, i;
  int memory[MAX BLOCKS] = \{0\}; // 0 = free, 1 = allocated
  printf("Enter starting block of file: ");
  scanf("%d", &start);
  printf("Enter length of file: ");
  scanf("%d", &length);
  if (start + length > MAX BLOCKS) {
     printf("File cannot be allocated (out of memory range).\n");
     return 0;
  for (i = start; i < start + length; i++) {
    if (memory[i] == 1) {
       printf("File cannot be allocated (blocks already in use).\n");
       return 0;
     }
  }
  for (i = start; i < start + length; i++) {
    memory[i] = 1;
  printf("File allocated in blocks: ");
  for (i = start; i < start + length; i++) {
    printf("%d ", i);
```

```
}
printf("\n");
return 0;
}
```