

```

#include <stdio.h>

#define MEMORY_SIZE 1000
#define NUM_BLOCKS 5

int memory[MEMORY_SIZE];
int block_size[NUM_BLOCKS] = {100, 200, 300, 150, 250};
int block_allocated[NUM_BLOCKS] = {0};

void allocate_memory(int process_size, int process_id) {
    for (int i = 0; i < NUM_BLOCKS; i++) {
        if (!block_allocated[i] && block_size[i] >= process_size) {
            block_allocated[i] = process_id;
            printf("Process %d allocated to block %d\n", process_id, i);
            return;
        }
    }
    printf("Process %d cannot be allocated\n", process_id);
}

void deallocate_memory(int process_id) {
    for (int i = 0; i < NUM_BLOCKS; i++) {
        if (block_allocated[i] == process_id) {
            block_allocated[i] = 0;
            printf("Process %d deallocated from block %d\n", process_id, i);
            return;
        }
    }
    printf("Process %d not found in memory\n", process_id);
}

int main() {
    allocate_memory(120, 1);
    allocate_memory(180, 2);
    allocate_memory(90, 3);
    allocate_memory(200, 4);
    allocate_memory(80, 5);

    deallocate_memory(2);

    allocate_memory(180, 6);

    return 0;
}

```