#include <stdio.h>

/* swap: exchanges the values in two array buckets */
void swap(int arr[], int p1, int p2) {
    int temp;
    temp = arr[p1];
    arr[p1] = arr[p2];
    arr[p2] = temp;
    //DRAW STACK HERE
}

/* print_array: prints out array values */
void print_array(int arr[], int size) {
    int i;
    for(i=0; i < size; i++) {
        printf("%5d\n", arr[i]);
    }
}

/* main: initialize array, swap 2 elements */
int main() {
    int values[10], i;
    for(i=0; i < 10; i++) {
        values[i] = i*i;
    }
    print_array(values, 10); // prints ...
    swap(values, 4, 6);
    print_array(values, 10); // prints ...
    return 0;
} // SHOW PROGRAM OUTPUT AT THE END OF MAIN