

```

#include <iostream>
#include <time.h>
#include <sys/timeb.h>
#include "sortlib.h"

using namespace std;

const int LOW = 1;
const int HIGH = 1000;
const int NUM_DATA = 50000;

int main(void) {
    int data[NUM_DATA], i;
    time_t seed;
    struct timeb t_start, t_current;
    long t_diff;

    time(&seed);
    srand((unsigned int) seed);

    for (i = 0 ; i < NUM_DATA ; i++) {
        data[i] = rand() % (HIGH - LOW + 1) + LOW;
    }

    ftime(&t_start);
    Selection(data, NUM_DATA);
    //Bubble(data, NUM_DATA);
    //Insertion(data, NUM_DATA);
    //Shell(data, NUM_DATA);
    //Merge(data, NUM_DATA);
    //Quick(data, NUM_DATA);
    ftime(&t_current);

    t_diff = (long) (1000.0 * (t_current.time - t_start.time) + (t_current.millitm - t_s
tart.millitm));
    cout << "Time (microseconds): " << t_diff << " ms \n";
    cout << "It's Selection\n";
    //cout << "It's Bubble\n";
    //cout << "It's Insertion\n";
    //cout << "It's Shell\n";
    //cout << "It's Merge\n";
    //cout << "It's Quick\n";
    return 0;
}

```