CSE 2003: Lab Assignment #8

Due on Thursday, March 30, 2017

Prof. Shaik Naseera 2:00pm

Jacob John

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Jacob John   CSE 2003 (Prof. Shaik Naseera 2:00pm): Lab Assignment #8
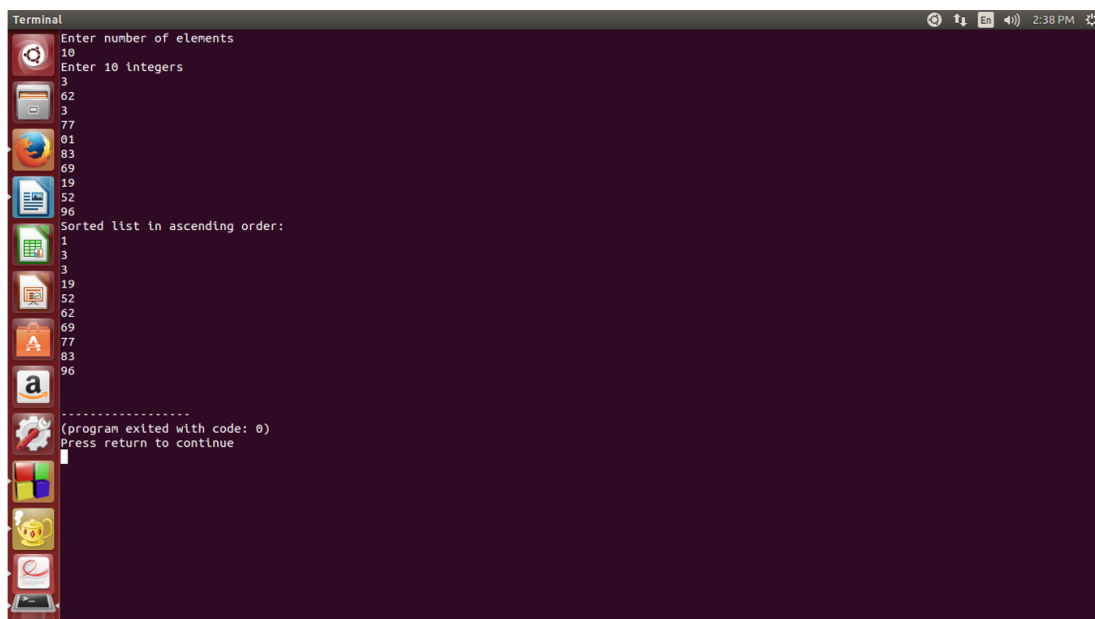
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Problem 1

Implement a selection sort program using brute force using C

Listing 1: Selection sort using C

```c
/*Program for selection sort in c*/
#include <stdio.h>
  int main() {
    int array[100], n, c, d, position, swap;
    printf("Enter number of elements\n");
    scanf("%d", & n);
    printf("Enter %d integers\n", n);
    for (c = 0; c < n; c++)
      scanf("%d", & array[c]);
    for (c = 0; c < (n - 1); c++) {
      position = c;
      for (d = c + 1; d < n; d++) {
        if (array[position] > array[d])
          position = d;
      }
      if (position != c) {
        swap = array[c];
        array[c] = array[position];
        array[position] = swap;
      }
    }
    printf("Sorted list in ascending order:\n");
    for (c = 0; c < n; c++)
      printf("%d\n", array[c]);
    return 0;
  } /*End of main()*/
```

Output: