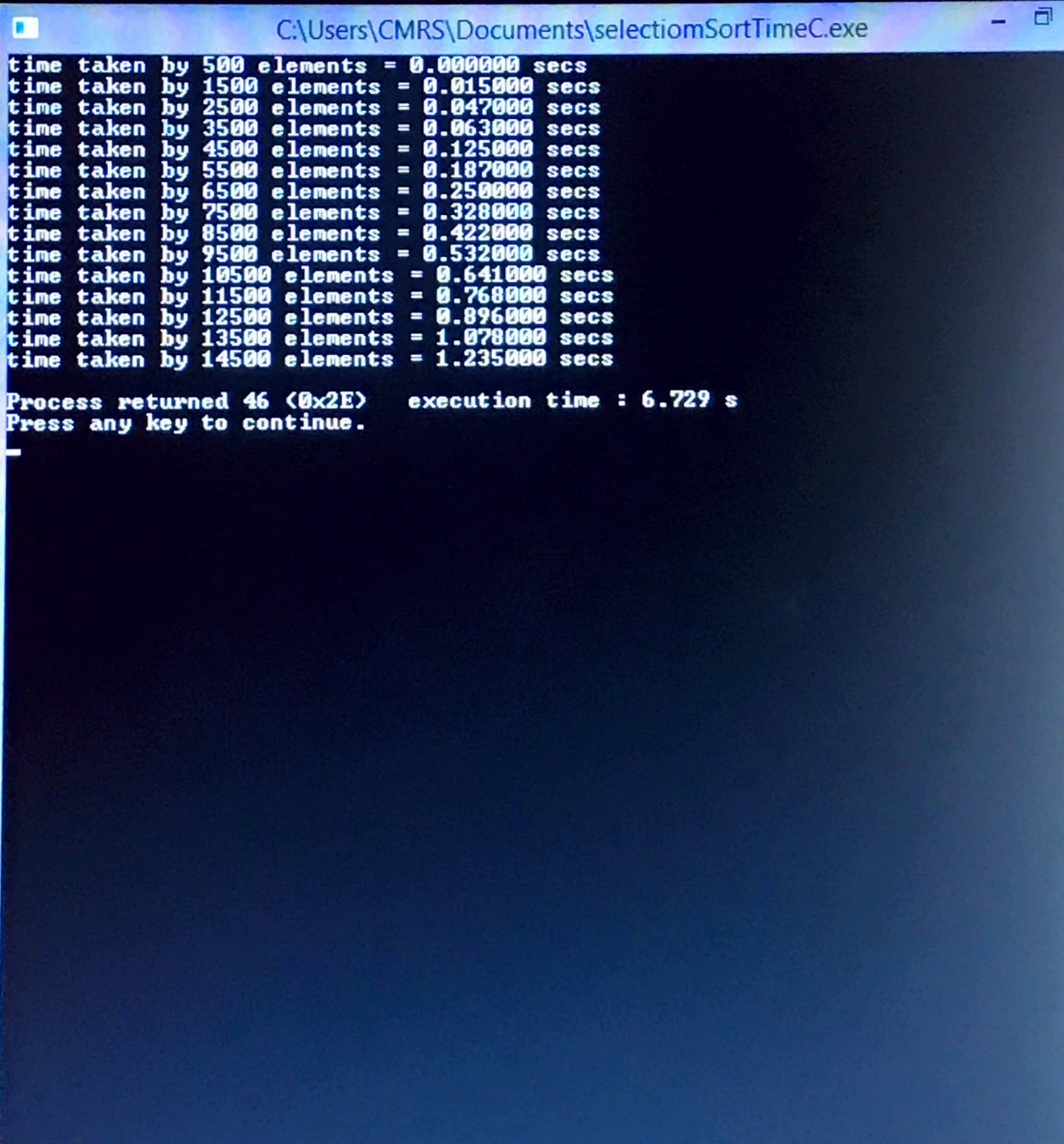
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Start here | *selectiomSortTimeC.c

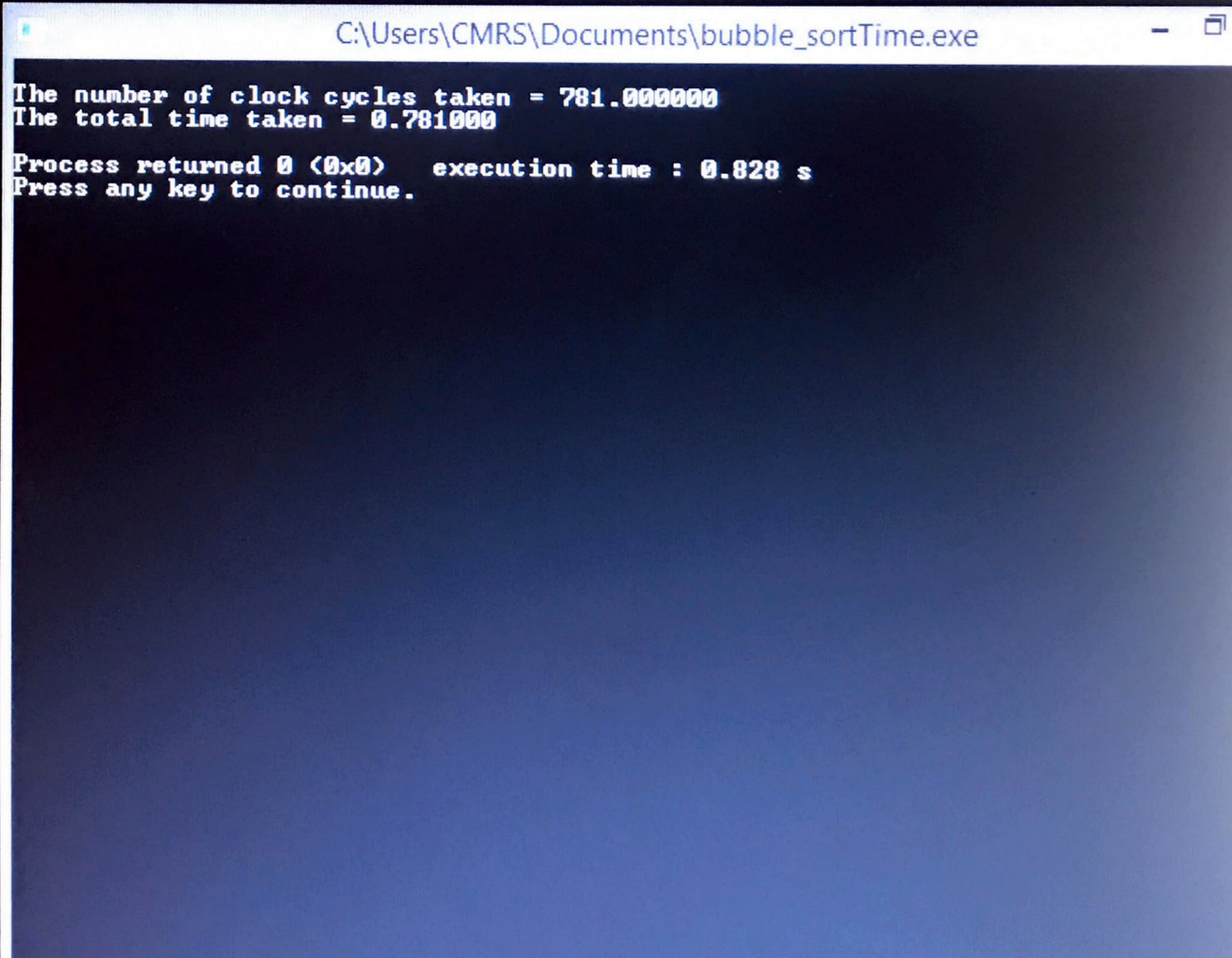
```c
#include<stdio.h>
#include<conio.h>
#include<process.h>
#include<stdlib.h>
#include<time.h>
void selection_sort(int n,int arr[])
{int temp,small,pos;
    for(int i=0;i<n-1;i++)
    {small=arr[i];
        pos=i;
        for(int j=i+1;j<n;j++)
        {if(arr[j]<small)
            {small=arr[j];
                pos=j;
            }}
        temp=arr[i];
        arr[i]=arr[pos];
        arr[pos]=temp;
    }}
void main()
{
    int a[15000],n;
    clock_t start,end;
    n=500;
    while(n<=14500)
    {
        for(int i=0;i<n;i++)
            a[i]=n-i;

        start=clock();
        selection_sort(n,a);
        for(int j=0;j<=100;j++);
        end=clock();
        printf("time taken by %d elements = %f secs \n",n,((double)(end-start))/CLOCKS_PER_SEC);
        n=n+1000;
    }}
```


C:\Users\CMRS\Documents\selectiomSortTimeC.exe
time taken by 500 elements = 0.000000 secs
time taken by 1500 elements = 0.015000 secs
time taken by 2500 elements = 0.047000 secs
time taken by 3500 elements = 0.063000 secs
time taken by 4500 elements = 0.125000 secs
time taken by 5500 elements = 0.187000 secs
time taken by 6500 elements = 0.250000 secs
time taken by 7500 elements = 0.328000 secs
time taken by 8500 elements = 0.422000 secs
time taken by 9500 elements = 0.532000 secs
time taken by 10500 elements = 0.641000 secs
time taken by 11500 elements = 0.768000 secs
time taken by 12500 elements = 0.896000 secs
time taken by 13500 elements = 1.078000 secs
time taken by 14500 elements = 1.235000 secs
Process returned 46 (0x2E) execution time : 6.729 s
Press any key to continue.

```c
#include <stdio.h>
#include <stdlib.h>
#include<time.h>
#define size 9000
int main() {
    int i,arr[size];
    double cc;
    clock_t start,end;
    start=clock();

    for (i = 0; i < size; i++)
    {
        arr[i]=rand()%100;
    }
  for (int step = 0; step < size - 1; step++)
   {
    for (int i = 0; i < size - step - 1; i++)
     {
      if (arr[i] > arr[i + 1])
       {
        int temp = arr[i];
        arr[i] = arr[i + 1];
        arr[i + 1] = temp;
       }
     }
   }
  printf("\n");
  end=clock();
    cc=((double)end-start);
  printf("The number of clock cycles taken = %f \n",cc);
  printf("The total time taken = %f \n",(cc/CLOCKS_PER_SEC));
}
```


C:\Users\CMRS\Documents\bubble_sortTime.exe
The number of clock cycles taken = 781.000000
The total time taken = 0.781000
Process returned 0 (0x0)   execution time : 0.828 s
Press any key to continue.