CIS 212: Project #2B
Assigned: October 10, 2019
Due: October 16, 2019
(which means submitted by 6am on October 17, 2019)
Worth 4% of your grade

Assignment:
1) Write a C program that sorts 100 numbers in an array. The name of the C program should be “project2B.c”
2) You can sort however you want.
   a. [link](https://en.wikipedia.org/wiki/Bubble_sort) if you need ideas. Also see the Python code below.
   b. You should not use any subroutines from the C library. (Don’t use qsort, for example)
3) Your program should have the exact same output as mine.
   a. 10 numbers per row, 10 rows
   b. Note I used “tab” to do whitespaces. That makes it pretty. You will need to use tabs too.
   c. You can also see the correct output as “proj2B_correct_output”. Make sure to download this by right clicking and “save link as.” Otherwise, tabs can get converted to spaces.
4) You can confirm this:
   a. Download “proj2B_checker”
   b. Do a chmod: “chmod 755 proj2B_checker”
   c. Run your program as “./proj2B_checker”

This project will be graded by:
1) Running proj2B_checker on your code and confirming it is correct
2) Inspection of your code

If the diff program shows any difference, you will get less than half credit.

What should you upload?: Just a single file, which is your project2B.c source code.

Here is a Python version to do the sorting (not the printing):

```python
>>> for i in range(100):
...   low_val=A[i]
...   low_idx=i
...   for j in range(i+1,100):
```


if (A[j]<low_val):
    low_val=A[j]
    low_idx=j
    tmp=A[i]
    A[i]=low_val
    A[low_idx]=tmp

>>> A

>>>