NAME ________________________________ **ICA-1**

NetID____________________ @email.arizona.edu

Work with your neighbor. (This will be graded for participation only.)

1. Write a for loop that
   a. prints the numbers from 100 to 0 in descending order by 2

   b. prints every other element of `nums` , which is a list of integers

2. Write a function `get_words(s)` that takes a string `s` as an argument that consists of words separated by dashes. The function `get_words` returns a list of strings where each string in the list is one of the words in `s`. For example,

   ```
   get_words('CS-120-Summer-2018-U-of-A')
   ```

   returns

   ```
   ['CS', '120', 'Summer', 2018', 'U', 'of', 'A']
   ```

3. Write a function `sum_column(grid, offset)` that takes as arguments a grid of numbers and an offset and returns the result of summing the numbers on a specified column of grid. A grid is represented as a list of lists, as shown on the right, and offset 0 refers to the leftmost column (in the example shown: 11, 66, 22, 77, 33). You can assume that the argument grid is in fact a grid (i.e., a list of equal-length lists of numbers).

```
[[11,  22,  33,  44,  55],
 [66,  77,  88,  99,  11],
 [22,  33,  44,  55,  66],
 [77,  88,  99,  11,  22],
 [33,  44,  55,  66,  77]]
```

4. Write a function `print_some_words(filename,n)` that takes a filename as a string argument and for each line in the file, finds and prints the individual words of *length great than or equal to* `n` on a separate line.

   A word is defined as a string of characters separated by white space. When considering words, the punctuation characters `".,;?"` should be omitted. For example, if the file `poem.txt` consists of the following lines,

   ```
   Two roads diverged in a yellow wood,
   And sorry I could not travel both
   And be one traveler, long I stood
   And looked down one as far as I could
   To where it bent in the undergrowth;
   ```

   the function `print_some_words("poem.txt", 6)` would print the words below:

   ```
   diverged
   yellow
   travel
   traveler
   looked
   undergrowth
   ```