

CSCI 1320 Computer Science I: Engineering Applications – Fall 2018
Instructor: Zagrodzki
Lab 4
Due Friday, October 5, by 6pm

Duplicate the elements

Write a function *repvec* that receives a ROW vector and the number of times each element is to be duplicated. The function should then return the resulting ROW vector. If the second input argument is 0(zero) then the function should return an empty vector.

Note: Matlab has some built-in functions which would be helpful for this problem. You are NOT allowed to use `repelem` and `repmat`. You are expected to use loops and branching statements in your implementation.

Some examples of calling the function:

```
>> repvec(5:-1:1,2)
ans =
5     5     4     4     3     3     2     2     1     1

>> repvec([0 1 0],3)
ans =
0     0     0     1     1     1     0     0     0

>> repvec(0,3)
ans =
0     0     0

>> repvec(3,0)
ans =
[]

>> repvec(4:7,0)
ans =
[]

>> repvec([],7)
ans =
[]
```

Submitting the assignment:

Make sure your function file is well commented and it includes in the header your name, student ID, course number, lab number and recitation section. If you finish the function in recitation, you can show your code and then demonstrate it to your TA. Submit the *.m* file through Moodle as Lab 4 by due date.