

# Programming Assignment 1

Submission Deadline: 20/8/2017 11:59PM

Programming Assignment 1 asks you to write and submit following two "C" programs.

## 1. Palindrome

A "C" Program that takes as input a string from the user and print Yes if it's a palindrome and No otherwise.

*A palindrome is a word, phrase, number, or other sequence of characters which reads the same backward as forward, such as madam or racecar.*

### Sample Input 1

hello

### Sample Input 2

racecar

### Sample Output 1

No

### Sample Output 2

Yes

## 2. Inverse of a matrix

A "C" Program that takes matrix of floating point numbers as input along with the dimensions of the matrix and computes and prints the inverse of the matrix.

### Sample Input 1

2  
3 3.5  
3.2 3.6

### Sample Input 2

3  
1 2 3  
0 1 4  
5 6 0

### Sample Output 1

-9 8.75  
8 -7.5

### Sample Output 2

-24 18 5  
20 -15 -4  
-5 4 1

*Note: The assignment submission should be a zip file containing exactly 2 files in the format <roll\_no>\_<question\_number>\_<firstname>.c eg. 2014072\_1\_palash.c*