Write a code for the following scenario:

**Input**: number1 and number2

**Output**: print all the palindrome number within [number1, number2]

The code should contain

1. a **recursive** function **is\_palindrome** that returns true if the input is a palindrome and returns false if it is not a palindrome
2. a **main** method to that takes inputs number1 and number2 from user and uses the function is\_palindrome to find all the numbers

|  |  |
| --- | --- |
| Sample Input | Sample Output |
| 1 4 | 1 2 3 4 |
| 10 20 | 11 |
| 10 99 | 11 22 33 44 55 66 77 88 99 |

Hint: the following code converts a number to a string. You may or may not need it.

char str[100];

int num = 435;

sprintf(str, "%d", num);

Your code is valid only if it compiles properly. No marks for invalid code.