Homework assignment #6: ‘More functions’
Deadline: Tuesday, March 31 before 23:59pm
Follow the guidance on submission (otherwise a penalty of 15% will be applied to your score)

Write a complete C++ program that does the following:
1. It prompts user to input a positive integer n greater than 1000;
2. The input is then checked by the function checkInput for the validity;
3. If the inputted value is invalid, program continuously prompts user to input a valid number;
4. Program then finds the smallest digit of the n by using smallestDigit function.

Notes:
You will have two separate from main() functions:
• checkInput that returns true if input is greater than 1000, false otherwise;
• smallestDigit that returns smallest digit of an input.

Sample output:
Please input a number greater than 1000: 67
Greater than 1000! Try again: 76851
The smallest digit of this number is: 1