Next & Previous Immediate Prime Difference

A number N is passed as the input. The program must print the difference between the next immediate prime number and the previous immediate prime number.
If the given number N itself is a prime number then print 0 (zero).

Input Format:
The first line will contain the value of the number N.

Boundary Conditions:
2 <= N <= 9999999

Output Format:
The difference between the next immediate prime number and the previous immediate prime number for N.

Example Input/Output 1:

Input:
14

Output:
4

Explanation:
The next immediate prime number is 17.
The previous immediate prime number is 13.
Hence their difference = 17-13 = 4 is printed as output.

Example Input/Output 2:

Input:
23

Output:
0

Explanation:
23 itself is a prime number. Hence the output is 0.

Example Input/Output 3:

Input:
2580

Output:
12

Explanation:
The next immediate prime number is 2591.
The previous immediate prime number is 2579.
Hence their difference 12 is printed as output.