Java Lambda Expressions

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This Java 8 challenge tests your knowledge of Lambda expressions!

Write the following methods that *return a lambda expression* performing a specified action:

1. PerformOperation isOdd(): The lambda expression must return $true$ if a number is odd or $false$ if it is even.
2. PerformOperation isPrime(): The lambda expression must return $true$ if a number is prime or $false$ if it is composite.
3. PerformOperation isPalindrome(): The lambda expression must return $true$ if a number is a palindrome or $false$ if it is not.

Input Format

Input is handled for you by the locked stub code in your editor.

Output Format

The locked stub code in your editor will print T lines of output.

Sample Input

The first line contains an integer, T (the number of test cases).

The T subsequent lines each describe a test case in the form of 2 space-separated integers:
The first integer specifies the condition to check for (1 for Odd/Even, 2 for Prime, or 3 for Palindrome). The second integer denotes the number to be checked.

```
5
1 4
2 5
3 898
1 3
2 12
```

Sample Output

```
EVEN
PRIME
PALINDROME
ODD
COMPOSITE
```

More

Current Buffer (saved locally, editable)

Java 8

```
1 ▸ import ↔;
3 ▾ interface PerformOperation {
4   boolean check(int a);
5 }
6 class MyMath {
7 ▾  public static boolean checker(PerformOperation p, int num) {
8     return p.check(num);
9   }
10    // Write your code here
11 ▸ public class Solution {↔}
43
```

Line: 3 Col: 1

Upload Code as File

Test against custom input

Run Code

Submit Code