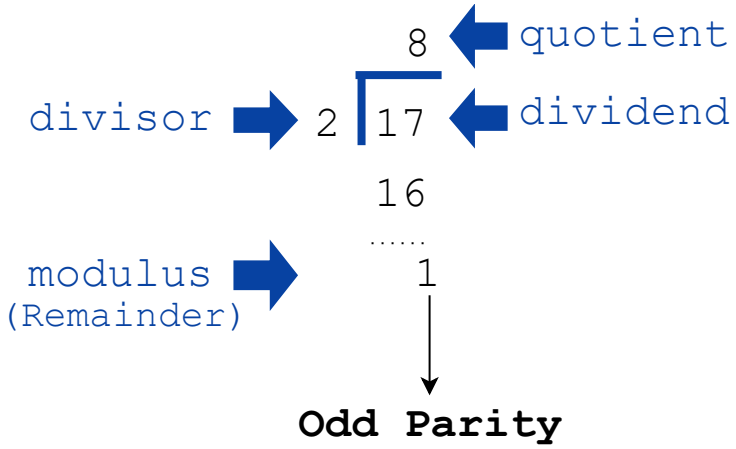
Solution Review : Check Parity of a Number

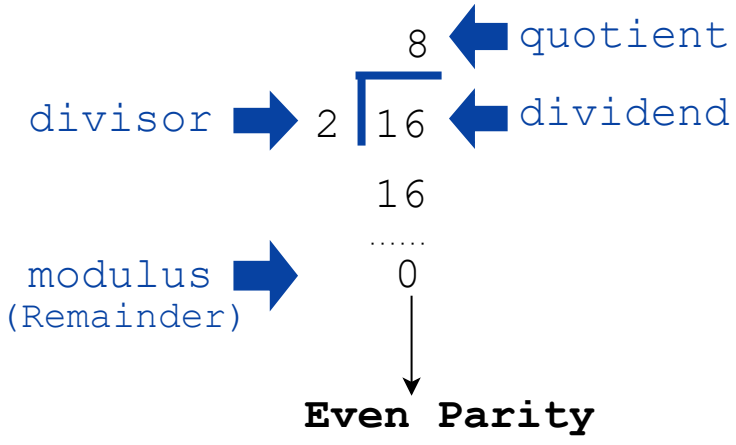
This lesson gives a detailed review of how to check the parity of a number.

WE'LL COVER THE FOLLOWING

Solution: Use Modulus (%) Operator

The solution isn't complicated. You simply check the **remainders** when even and odd numbers are divided by 2; all **even** numbers result in a **remainder of 0** and all **odd** numbers produce a **remainder of 1**. This is convenient because the problem requires us to return a 0 if a number is even, and a 1 if it is odd. Therefore, you will just use the `%` operator to obtain the remainder of n when divided by 2 and return the answer.





To check the parity of a number, write the following python code.

```
def checkParity(n):
  result = (n % 2)
  return result

print("Odd parity", checkParity(17))
print("Even parity", checkParity(16))
```

Let’s move on to solve another problem using numbers.