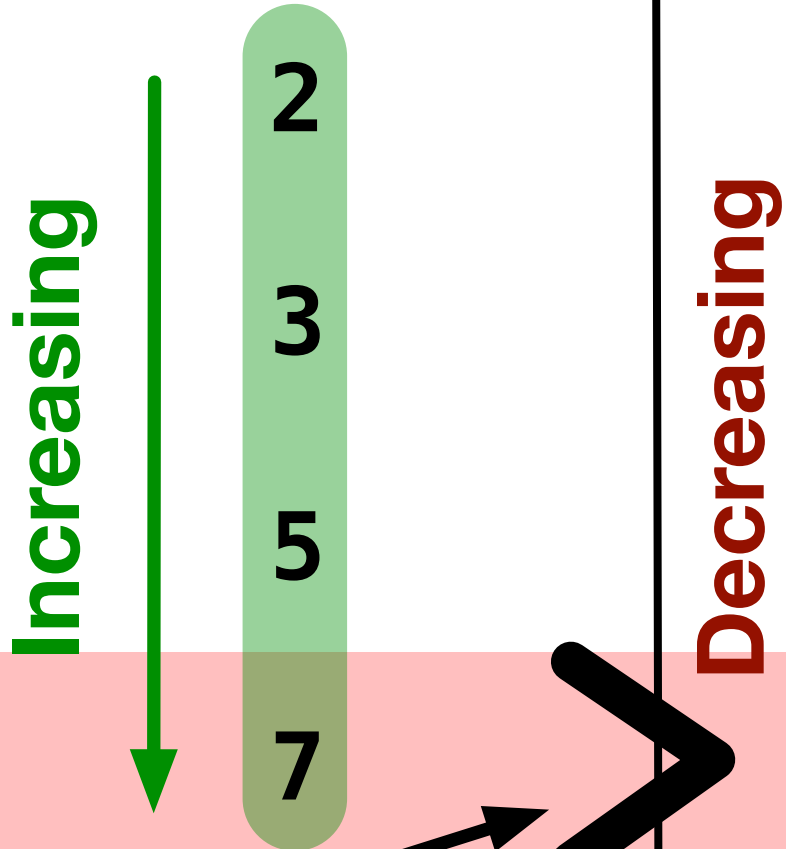


Iteration	Prime Number x	$12 - x = y$	Verified?
1	2	$12 - 2 = 10$	Not yet, y not prime
2	3	$12 - 3 = 9$	Not yet, y not prime
3	5	$12 - 5 = 7$	Yes, y is prime
4	7	$12 - 7 = 5$	



Unnecessary step, because we checked **7** and **5** before

If we did not find x and y to be prime *and* $x > y$, then we will never find it and the conjecture is **rejected!**