First refinement: for each prime, mark | p2 |, (p+1)p, --because for =x.p<pp assume every p'< p has mark all its multiples \Rightarrow Num = $\chi \cdot p$ La does not contain P as factor $\therefore X < P$ 7 must be a composite number formed by smaller primes

Second refinement:

Note that:

for each p, p²,(p+1)p². --- - are what we mark

but when $P > \sqrt{n}$, $P \cdot P > n$ I no need to mark anymore!

bound = [In] -, why not [In]

for i in [2, bound] because say

In = 2 ---
mark i², (it) i -- when p=2 still have oheck

When P=2 Still
have ohech

P=3 we don't need
to check