

- Write a function that takes in a Proth Number and uses Proth's theorem to determine if said number is prime? You can write this in any programming language but C/C++/Golang are preferred

A proth number is prime if the value of a in the equation $a^{P-1/2} \equiv -1 \pmod{P}$

The link to the code is on my online compiler account is [here](#)