

# MAGNET1C H1LLS



osu!gaming CTF 2024

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**SOLUTION:** For the solution, it was assumed that  $p$  and  $q$  were prime numbers. Based on this statement, we found the prime factors of  $n$  using the `primefactors` function from the `sumpy` library, which gave the values of  $p$  and  $q$ . From the values of  $p$ ,  $q$  and  $e$  we found  $d$  using the `mod_inverse` function