```
"id": 50,
"name": "Peak Prime",
"description": "> P(L)eak prime number, no one gonna guess this.\r\n",
"max_attempts": 0,
"value": 481,
"category": "Cryptography",
"type": "dynamic",
"state": "visible",
"requirements": null,
"connection_info": null,
"next_id": null,
"attribution": "*Q\u000e2n*",
"logic": "any",
"initial": null,
"minimum": null,
"decay": null,
"function": "static"
```

The leak gives the top 512–25 bits of q, leaving only 25 unknown lower bits.

That reduces q to a small search window (about 33 million integers), but by iterating only primes in that window the search becomes practical.

Once q is found, factoring n is trivial, allowing RSA decryption to recover the plaintext flag. solve_peak_prime.py is a solver that:

Parses the leaked values,

Iterates prime candidates for q in the constrained range,

Factors n, computes d, and decrypts the ciphertext to print the flag.

Finally, after brute forcing, we got the flag vgucypher{f3ker_at_his_b3st_peak_prime!!!}