

Just guess the number. Binary search refers to an algorithm where we divide a half -sorted list to check the middle element. Something like that must show the resolution:

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Welcome to the Binary Search Game!
I'm thinking of a number between 1 and 1000.
Enter your guess: 500
Higher! Try again.
Enter your guess: 750
Lower! Try again.
Enter your guess: 650
Higher! Try again.
Enter your guess: 690
Higher! Try again.
Enter your guess: 725
Higher! Try again.
Enter your guess: 235
Higher! Try again.
Enter your guess: 735
Higher! Try again.
Enter your guess: 742
Lower! Try again.
Enter your guess: 739
Lower! Try again.
Enter your guess: 737
Congratulations! You guessed the correct number: 737
```

THE FLAG : picoCTF{g00d_gu355_ee8225d0}
~Z4que