

# Largest Palindromic Substring

Given a string,  $S$ , find its largest palindromic substring.

## Input Format

A string,  $S$ .

## Constraints

$$1 \leq |S| \leq 1000000$$

All the characters are lower-case English letters.

## Output Format

Print the largest possible substring of  $S$ .

## Sample Input

```
hackerrekcahba
```

## Sample Output

```
hackerrekcah
```

## Explanation

The longest palindromic substring of the the given input `hackerrekcahbahh` is `hackerrekcah`.