## 125. Valid Palindrome

A man, a plan, a canal: panama



First lowercase all the string

```
s.lower()
```

a man, a plan, a canal: panama

Then remove non alphanumeric iterating through the string and building a new string without alphanumeric. In programming languages like Java should be a good idea to think about using mutable objects lis StringBuilder to save memory instead of concatenate strings

```
s."".join(char for char in s if char.isalpha())
```

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We'll use the two pointers technique one at the beginning of the string and one at the end.

```
p1 = 0

p2 = len(s) - 1

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```

While p1 < p2 we'll keep reviewing each letter to check if it is a palindrome in case the letters are not equal return false

We just iterate the string once and the time complexity of the solution is O(n)