

Palindromes

A palindrome is a word, sentence, verse, or even number that reads the same backward or forward.

Write a function to determine whether a string contains a palindrome. The function should ignore any whitespace characters, punctuation characters, and differences in capitalization when making its determination.

```
bool ispalindrome(const string& s);
```

Files We Give You: A `makefile` and a sample main program (`palindrome.cpp`) to test your solution. The executable file created by a successful build will be named `palindrome`.

File You Must Submit: Place your solution code in a file named `solution.cpp`. This will be the only file that you submit.

Examples

Input: `s = "taco cat"`

Returns: `true`

Input: `s = "taco rat"`

Returns: `false`

Input: `s = "A man, a plan, a canal... Panama!"`

Returns: `true`

Input: `s = " noon "`

Returns: `true`