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#How to check strength of a password
A password is said to be strong if it satisfies the following
criteria:
A Password must contain at least one lowercase English character.
    should have at least one uppercase English character.
It must have at least one special character.
The special characters are: !@#$%^&*()-+
Its length should be at least 8.
It should contain at least one digit.
For example,
Given a string, find its strength. Let a strong password is one
that satisfies all above conditions.
A moderate password is one that satisfies first three conditions
and has length at least 6.
Otherwise password is week.
Input : "Music of mind @1"
Output : Strong
Input : "Abc!@12"
Output : Moderate
CODE
// C++ program to check if a given password is
// strong or not.
#include <bits/stdc++.h>
using namespace std;
void printStrongNess(string& input)
int n = input.length();
// Checking lower alphabet in string
bool hasLower = false, hasUpper = false;
bool hasDigit = false, specialChar = false;
string normalChars = "abcdefghijklmnopgrstu"
"vwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890 ";
for (int i = 0; i < n; i++) {
if (islower(input[i]))
hasLower = true;
if (isupper(input[i]))
hasUpper = true;
if (isdigit(input[i]))
hasDigit = true;
size_t special = input.find_first_not_of(normalChars);
if (special != string::npos)
specialChar = true;
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}
// Strength of password
cout << "Strength of password:-";</pre>
if (hasLower && hasUpper && hasDigit &&
specialChar && (n >= 8)
cout << "Strong" << endl;</pre>
elseif ((hasLower || hasUpper) &&
specialChar && (n \ge 6)
cout << "Moderate" << endl;</pre>
else
cout << "Weak" << endl;</pre>
// Driver code
int main()
{
string input = "GeeksforGeeks!@12";
printStrongNess(input);
return 0;
}
output:
```



