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Highest Frequency Char in C++
#include <iostream>
                                                      Input
#include <unordered_map>
#include <string>
                                                      String:
                                                      "zmszeqxllzvheqwrofgcuntypejcxovtaqbnqyqlmrwitc"
using namespace std;
char getHighestFrequencyChar(string str) {
  unordered_map<char, int> hm; // HashMap to
                                                      Step 1: Count Character Frequencies
store character frequencies
                                                      We iterate through the string str and populate the
  // Count frequencies of characters in the string
                                                      unordered_map (hm) with the count of each
  for (char ch : str) {
                                                      character.
    hm[ch]++;
                                                      Character Frequency Count:
  char mfc = str[0]; // Initialize most frequent
character with the first character
                                                      Character Count
  // Find the character with the highest frequency
                                                                  3
  for (auto it = hm.begin(); it != hm.end(); ++it) {
                                                                  3
    if (it->second > hm[mfc]) {
                                                      m
       mfc = it - sfirst;
                                                                  2
  }
                                                                  4
                                                      e
  return mfc;
                                                                  4
                                                      q
                                                                  2
                                                      X
int main() {
  string str =
                                                      1
                                                                  3
"zm szeqx llzvheqwrofg cuntypejc xovtaqbnqyqlmrwit\\
                                                                  2
  char highestFreqChar =
                                                                  1
                                                      h
getHighestFrequencyChar(str);
                                                                  2
                                                      w
  cout << highestFreqChar << endl;</pre>
                                                                  2
                                                      r
  return 0;
                                                                  2
                                                      0
                                                                  1
                                                      g
                                                                  1
                                                                  2
                                                      \mathbf{c}
                                                                  1
                                                      u
                                                                  2
                                                      n
                                                                  2
                                                                  3
                                                      у
                                                                  1
                                                      p
                                                      j
                                                                  1
                                                                  1
                                                      a
                                                      b
                                                                  1
```

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Step 2: Find the Character with the Highest Frequency

We iterate through the unordered_map (hm) and keep track of the character with the maximum frequency (mfc). Initially, mfc is set to the first character of the string, z.

Iteration Over HashMap:

Current Character	Frequency	hm[mfc]	Update mfc?	Updated mfc	
z	3	3	No	Z	
m	3	3	No	Z	
s	2	3	No	Z	
е	4	3	Yes	е	
q	4	4	No	e	
X	2	4	No	e	
1	3	4	No	e	
v	2	4	No	e	
h	1	4	No	e	
w	2	4	No	e	
r	2	4	No	e	
o	2	4	No	e	
$\overline{\mathbf{f}}$	1	4	No	e	
g	1	4	No	e	
c	2	4	No	е	
u	1	4	No	e	
n	2	4	No	е	
t	2	4	No	е	
У	3	4	No	e	
p	1	4	No	e	
j	1	4	No	e	
a	1	4	No	e	
b	1	4	No	e	

	Current Character	Frequency	hm[mfc]	Update mfc?	Updated mfc
	i	1	4	No	e
		put er with the hi times in the		uency is	q,
Output:					
q					