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| **Difference of every two consecutive character in C++** | |
| #include <iostream>  #include <string>  using namespace std;  string solution(string str) {  if (str.empty()) return "";  string result;  result += str[0]; // Append the first character directly  for (int i = 1; i < str.length(); i++) {  char curr = str[i];  char prev = str[i - 1];  int gap = curr - prev;  result += to\_string(gap); // Append the difference as a string  result += curr; // Append the current character  }  return result;  }  int main() {  string str = "pepCODinG";  cout << solution(str) << endl;  return 0;  } | Input String: "pepCODinG"  | **Index (i)** | **prev** | **curr** | **ASCII(prev)** | **ASCII(curr)** | **Difference curr - prev** | **Intermediate Result** | | --- | --- | --- | --- | --- | --- | --- | | 0 | – | p | – | 112 | – | p | | 1 | p | e | 112 | 101 | -11 | p-11e | | 2 | e | p | 101 | 112 | 11 | p-11e11p | | 3 | p | C | 112 | 67 | -45 | p-11e11p-45C | | 4 | C | O | 67 | 79 | 12 | p-11e11p-45C12O | | 5 | O | D | 79 | 68 | -11 | p-11e11p-45C12O-11D | | 6 | D | i | 68 | 105 | 37 | p-11e11p-45C12O-11D37i | | 7 | i | n | 105 | 110 | 5 | p-11e11p-45C12O-11D37i5n | | 8 | n | G | 110 | 71 | -39 | p-11e11p-45C12O-11D37i5n-39G |  ✅ Final Output: p-11e11p-45C12O-11D37i5n-39G |
| p-11e11p-45C12O-11D37i5n-39G | |