



I'm not a robot



Next

Sum ascii values string python

You can use an intermediate bytarray to speed things up: >>> sum(bytarray("abcdefg")) 804 This is not 17 times faster than the generator—it involves the creation of an intermediate bytarray and sum still has to iterate over Python integer objects—but on my machine it does speed up summing an 8-character string from 2μs to about 700ns. If a timing in this ballpark is still too inefficient for your use case, you should probably write the speed-critical parts of your application in C anyway. If your strings are sufficiently large, and if you can use numpy, you can avoid creating temporary copies by directly referring to the string's buffer using numpy.frombuffer: >>> import numpy as np >>> np.frombuffer("abcdefg", "uint8").sum() 804 For smaller strings this is slower than a temporary array because of the complexities in numpy's view creation machinery. However, for sufficiently large strings, the frombuffer approach starts to pay off, and it of course always creates less garbage. On my machine the cutoff point is string size of about 200 characters. Also, see Guido's classic essay Python Optimization Anecdote. While some of its specific techniques may by now be obsolete, the general lesson of how to think about Python optimization is still quite relevant. You can time the different approaches with the timeit module: \$ python -m timeit -s='a'*20' sum(ord(ch) for ch in s) 100000 loops, best of 3: 3.85 usec per loop \$ python -m timeit -s='a'*20' sum(bytarray(s)) 1000000 loops, best of 3: 1.05 usec per loop \$ python -m timeit -s='frombuffer(s, "uint8").sum()' 100000 loops, best of 3: 4.8 usec per loop Given the string list, the task is to write a Python program to compute the summation value of each character's ASCII value.Examples:Input : test_list = ["geeksforgeeks", "teaches", "discipline"] Output : [133, 61, 100] Explanation : Positional character summed to get required values.Input : test_list = ["geeksforgeeks", "teaches", "discipline"] Output : [133, 61, 100] Explanation : Positional character summed to get required values.Method 1 : Using ord() + loopIn this, we iterate each character in each string and keep on adding positional values to get its sum. The summed value is appended back to the result in a list.test_list = ["geeksforgeeks", "teaches", "us", "discipline"]Positional Summation List : [133, 61, 40, 100]Method 2 : Using list comprehension + sum() + ord()In this, we get summation using sum(), ord() is used to get the ASCII positional value, and list comprehension offers one-liner solution to this problem.test_list = ["geeksforgeeks", "teaches", "us", "discipline"]Positional Summation List : [133, 61, 40, 100]The program must accept a string S as the input. The program must print the sum of the ASCII values of all the characters in the string S. Input : abcd Output : 394 Explanation:The ASCII value of a is 97.The ASCII value of b is 98.The ASCII value of c is 99.The ASCII value of d is 100.The sum of those ASCII values is 394.Hence the output is 394. Here are the various methods and logic. Java //Java logic by @ Agent Thor import java.io.*; import java.util.*; public class Main { public static void main(String[] args) { Scanner S=new Scanner(System.in); String Str=S.nextLine(); int i=0,sum=0;j; for(i=0;i<Str.length(); i++) { int c = int(Str[i]); j++; } std::cout<< 4579 Here,[GeeksforGeeks, l> 1361, [a]> 97, [computer]> 879, [science]> 730 [portall]> 658, [forl]> 327, [geeks]> 527 Input : I am a geek Output : Sum of ASCII values: 73 206 97 412 Total sum -> 788AApproach : Iterate over the length of the string and keep converting the characters to their ASCIIKeep adding up the values till the end of sentence.When we come across a space character, we store the sum calculated for that word and set the sum equal to zero again.Later, we print elements #include #include using namespace std;long long int ASCIIWordSum(string str, vector<int> sumArr){ int l = str.length(); int sum = 0; long long int bigSum = 0L; for (int i = 0; i < l; i++) { if (str[i] == ' ') { bigSum += sum; sumArr.push_back(sum); sum = 0; } else { sum += str[i]; sumArr.push_back(sum); bigSum += sum; } return bigSum;}int main(){ string str = "GeeksforGeeks a computer science " "portal for Geeks"; vector<int> sumArr; long long int sum = ASCIIWordSum(str, sumArr); cout

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