

Anu is quite nervous as she has to make a big decision in life. She has got calls from five institutions to pursue her Masters program. She must choose one of them. All the five are excellent institutions. Now, that she must select one, she decided to take advice from her professor, philosopher and guide, Dr. Rajesh.

Dr. Rajesh is a big fan of Numerology. He advised her that she should derive her lucky number. She must match it with the lucky numbers of the cities in which these institutes are located. For example, suppose the lucky number of Anu is 4. She should select that institute whose city has a lucky number nearest to her lucky number.

So, Anu wanted to know the way to compute the lucky number for any given string. Dr. Rajesh explained that it is pretty simple. You add up the ASCII values of every character in the string. Check <http://asciivalue.com/> if you have any doubt. ASCII value of A is 65, n is 110 and u is 117. So, the sum is $65 + 110 + 117 = 292$. Now, sum the digits till you get single digit number. $2 + 9 + 2 = 13$. $1 + 3 = 4$. So, Anu's lucky number is 4.

S	r	i		C	i	t	y
83	114	105	32	67	105	116	121

TABLE 1. The ASCII values of each character in Sri City. You may double check for other values in <http://asciivalue.com/>.

One of the institutes that Anu got selected into was IIT in Sri City. "Sri City" has the lucky number of 5 which is computed as follows. $83 + 114 + 105 + 32 + 67 + 105 + 116 + 121 = 743$. $7 + 4 + 3 = 14$. $1 + 4 = 5$. Let us say, Anu also got into another city which has a lucky number of 6. Anu prefers Sri City because the lucky number is closer.

Anu followed this advice. She was very successful in her higher studies. Elated with this idea, she wanted to share this with everyone. She wanted to create a C program which will take any student name, the cities where they got admissions from, and returns the city where the student should prefer. Can you help Anu by writing such a C program? For an example of the expected input and output, see below.

Expected Input and Output

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Please enter your name: Anu
Anu, your lucky number is 4.
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Please enter the cities with which you wish to match:Chennai,Delhi,Sri City,
Mumbai,Bengaluru.
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The lucky numbers are:

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Chennai = 1
Delhi = 9
Sri City = 5
Mumbai = 9
Bengaluru = 6
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You will do well if you join Sri City.
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