

## Programming Problems

C-on-test - Intra-IIT Round Brought to you by CSEA, IITB in association with VERITAS software.

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Problem 1. ~~~~~ With Election fever on its high and politicians running short on time you have write an program which they can use to call junta to come forward and vote... The program should print Come-Sure-Come on a line by itself just once. No leading or trailing spaces. The output is case sensitive i.e. come-sure-come would be regarded as incorrect. As an concerned citizen of this country you should do your bit towards it. Ask yourself, Do you want an elected government or are you apathetic ?

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Problem 2. ~~~~~ Elections over, mps' elected, the auction house set and the horse-trading is on. All the mp's are seated in a circle. Each belongs to either the H front or the T front of the regional faction of the secular group of the leftist liberal democratic anti-communist pro-poor progressive party of India. In the center of the circle is THE ONE of the current polity Akal Bechari Bhaggayi (ABB). His aim is to convert all the mp's to either H or T group. But mps' being mps', having had years of experience are not so easy. They always go in pairs (so they can use each other as excuse later). In each step ABB can ask any 2 adjacent mp's to toggle their loyalty. Time however is of the essence. Everyone wants a piece of the action and if ABB doesnot convert fast he will be out of center stage. This is where you come into the picture. You being the brilliant students from IITB can surely use your skills to help him out. Help ABB figure out the minimum number of steps required to achieve his aim. You will be given a string consisting of H's and T's as input on a single line. The size of the input is bounded above by 1600. Consider the input string to be the Circle listed out clockwise from some point. You have to output the number of steps it will take ABB to convert all mp's to one type. The number is to be printed on a line by itself. No leading or trailing data. If it is not possible to do the conversion then output -1. Sample Input: HTH ~~~~~ Sample Output: 1 (for above example. Either pair of T's or H's)