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## Capital or Small or Digit

Input file:            **standard input**  
Output file:           **standard output**  
Time limit:            1 second  
Memory limit:         256 megabytes

Given a letter  $X$ . Determine whether  $X$  is Digit or Alphabet and if it is Alphabet determine if it is **Capital Case** or **Small Case**.

**Note:**

- Digits in ASCII '0' = 48, '1' = 49 ....etc
- Capital letters in ASCII 'A' = 65, 'B' = 66 ....etc
- Small letters in ASCII 'a' = 97, 'b' = 98 ....etc

### Input

Only one line containing a character  $X$  which will be a capital or small letter or digit.

### Output

Print a single line contains "**IS DIGIT**" if  $X$  is **digit** otherwise, print "**ALPHA**" in the first line followed by a new line that contains "**IS CAPITAL**" if  $X$  is a **capital** letter and "**IS SMALL**" if  $X$  is a **small letter**.

### Examples

standard input	standard output
A	ALPHA IS CAPITAL
9	IS DIGIT
a	ALPHA IS SMALL

### Note

\*\* recommended to read this to know more about ASCII Code <https://www.javatpoint.com/ascii>.