



RICH STRING

We define the “richness” of a string S as the number of letters that appear in S only once. For instance, the “richness” of the string "THOMASS" is 5 because it contains 5 distinct letters 'T', 'H', 'O', 'M' and 'A'.

You are given a string S . Your mission is to find the substring of S that has the maximal “richness”. In case of a tie, return the substring that has the smallest alphabetic order.

Input

The string S . The length of S is not greater than 2500 and S contains uppercase letters ('A'-'Z') only.

Output

The substring that has the maximum “richness”.

Examples

Standard Input	Standard Output
THEMULTILINETEST	HEMULTI
ZYXWVUTSRQPONMLKJIHGFEDCBAZYXWVUTS RQPONMLKJIHGFEDCBA	AZYXWVUTSRQPONML KJIHGFEDCB