Write a program to display an index of all words within the text starting with a \textit{KEY}.

\textbf{Input}

Consider several lines of text written with capital letters and one character called \textit{KEY}, specified on a line preceding the text. The words in the text are separated by spaces. The maximum word length is \leq 80. There are no words splitted between two lines. The line length is also \leq 80.

\textbf{Output}

The index must be alphabetically sorted. Each word appears in the index only once and must be followed by the numbers of all the lines in which it appears. Only a single occurrence of each word on a line must be included in the index.

\textbf{Sample Input}

\begin{verbatim}
T
CONSIDER SEVERAL LINES OF TEXT AND ONE CHARACTER CALLED KEY, SPECIFIED ON A LINE PRECEDING THE TEXT. THE WORDS IN THE TEXT ARE SEPARATED BY SINGLE SPACE. THERE ARE NO WORDS SPLITTED BETWEEN TWO LINES.
WRITE A PROGRAM TO DISPLAY AN INDEX OF ALL WORDS WITHIN THE TEXT STARTING WITH THE KEY. THE INDEX MUST BE ALPHABETICALLY SORTED. EACH WORD IN THE INDEX MUST BE FOLLOWED BY THE LIST OF THE LINE NUMBERS IN WHICH IT APPEARS.
\end{verbatim}

\textbf{Sample Output}

\begin{verbatim}
TEXT 1 2 5
THE 2 5 6 7
THERE 3
TO 5
TWO 3
\end{verbatim}