# Problem B
## Another Substring Query Problem
### Time Limit: 6 Seconds

You are given a string $s$ and several queries.

Each query consists of a string $t$ and an integer $k$. For each query, determine the $k^{th}$ position in $s$ where a substring matching $t$ starts. If $t$ occurs fewer than $k$ times in $s$, print $-1$.

## Input

The first line of input contains a single string $s$ ($1 \leq |s| \leq 2 \cdot 10^5$), which is the queriable string. It will consist only of lower-case letters.

The next line of input contains a single integer $q$ ($1 \leq q \leq 2 \cdot 10^5$), which is the number of queries that follow.

Each of the next $q$ lines contains a string $t$ ($1 \leq |t|$) and an integer $k$ ($1 \leq k \leq |s|$). This represents a query for the $k^{th}$ occurrence of $t$ in $s$. The string $t$ will consist only of lower-case letters. The sum of all $|t|$'s will be $\leq 2 \cdot 10^5$

## Output

Output a single integer, which is the position of the start of the $k^{th}$ occurrence of $t$ in $s$, or $-1$ if $t$ occurs fewer than $k$ times in $s$. The first character in $s$ is at position 1.

| Sample Input 1 | Sample Output 1 |
|---|---|
| abacabadabacaba<br>4<br>a 7<br>e 3<br>bac 2<br>abada 1 | 13<br>-1<br>10<br>5 |