

Day 72 coding Statement : In this problem you will have to implement a simple editor. The editor maintains the content of a string *S* and have two following functions:

"+ i x": insert a string *x* into the current string *S* after the *i*'th character of the *S* (we use 1-indexing in this problem). When *i* equals to 0 it mean we add *x* at the beginning of *S*.

"? i len": Print the sub-string of length *len* starting at position *i*'th of *S*.

At the beginning, the editor holds an empty string. There will be *Q* queries of the two types described above.

Input

The first line contains the integer *Q*. Each line in the next *Q* lines contains one query.

Output

For each query of the second type, print out the answer sub-string in one line.

Sample Input

```
5
+ 0 ab
+ 1 c
? 1 3
+ 2 dd
? 1 5
```

Sample Output

```
acb
acddb
```

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.lang.StringBuilder;

public class Program {
```

```

    public static void main(String aa[]) throws IOException {
        BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
        StringBuilder st = new StringBuilder();
        int q = Integer.parseInt(br.readLine());
        for (int i = 0; i < q; i++) {
            String s[] = br.readLine().split(" ");
            if (s[0].equals("+")) {
                int start = Integer.parseInt(s[1]);
                String sub = s[2];
                st.insert(start, sub);
            } else {
                int start = Integer.parseInt(s[1]) - 1;
                int last = Integer.parseInt(s[2]) - 1;
                String subt = st.substring(start, start + last + 1);
                System.out.println(subt);
            }
        }
    }
}

```