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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:

"+ ix": insert a string x into the current string x after the x (we use 1-indexing in this problem). When x equals to x it mean we add x at the beginning of x.

"? 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.

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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

?13

+ 2 dd

?15

Sample Output

acb

acddb

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C++ Solution

```
#include <bits/stdc++.h>
using namespace std;
int main() {
       long n;
       cin>>n;
       string s="";
       while(n--){
         char ch;
         int i;
         string str;
         cin>>ch>>i>>str;
         if(ch=='+'){
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           if(i==0){
            s=str+s;
           else{
            s.insert(i,str);
           }
        }
         else{
           cout<<s.substr(i-1,stoi(str))<<endl;</pre>
         }
       }
       return 0;
}
```

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Java

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.lang.StringBuilder;
public class Main
{
       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++)
{
       Strings[]=br.readLine().split("");
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       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);
       }
}
```

```
}
```

```
Python
definsert(string_s, insert_s, pos_i=0):
  return string_s[:pos_i] + insert_s + string_s[pos_i:]
q = int(input())
s = "
for _ in range(q):
       query = input().split()
       c = query[0]
       i = int(query[1])
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       if c == '+':
              sub = query[2]
              if i == 0:
                   s = sub + s
              else:
                     s = insert(s,sub,i)
       else:
              I = int(query[2])
              print(s[i-1:i+l-1])
```