



Statement Submissions Questions

Standard input

The first line contains one integer, T , the number of queries.

The next T lines contain two integers, B and X , that correspond to the number of characters used in the alphabet and the 0-based index of the character Ivan wants to know.

Standard output

Output T lines. The i th line has the character for the i th query.

Constraints and notes

- $1 \leq T \leq 100$
- $1 \leq B \leq 26$
- $0 \leq X \leq 10^{18}$

Input	Output	Explanation
<pre>6 4 5 4 3 2 32 26 24 26 50 4 27</pre>	<pre>a d b y a d</pre>	<p>For cases where $B = 2$, the 32th character is the following:</p> <p>abaaabbabbabaaaababababbbbaababbb</p> <p>b</p> <p>baaaaaabaabaaabbabaaabab</p> <p>...</p> <p>For Cases where $B = 4$, the 3rd, 5th and 27th characters are the following:</p> <p>abc d a a</p> <p>abacadbabbbcbdcacbcc d</p> <p>dadbdcddaaaaabaacaadaba ...</p> <p>For cases where $B = 26$, the 24th and 50th characters are the following:</p> <p>abcdefghijklmnopqrstuvwxyz y</p> <p>zaaabacadaeafagahaiajakal a</p> <p>manaoapaqar ...</p> <p>Note that all indices are 0-based.</p>

WORKSPACE / SUBMIT