**L0ve L3tt3r**

**S..S...S....S.....Simran** is going to US for doing her Masters and has a flight to catch in another few minutes.

**Raj** was supposed to come to see her off at **Hyderabad Airport** but got stuck in traffic. **Simran's** phone ran out of battery so they couldn't talk on phone.

Before proceeding for security check. **Simran** scribbled something on paper and handed over to her younger sister **Rajeshwari** and requested her to hand it over to **Raj**.

This was a love letter but written in cryptic language that contains only numbers. In the range of -3 to 25.

**0 to 25** represent lower case alphabets from **a to z** respectively.  
**-3** represents Full Stop (**'.'**)  
**-2** represents Space (**' '**)  
**-1** represents New Line (**'\n'**)

Help **Raj** by writing a program that can convert this letter into plain english text.

**Input Format**

Input consists of two lines  
Line 1: **N** - Count of numbers in the letter.  
Line 2: N numbers (in range -3 to 25) separated by spaces.

**Constraints**

0 <= N <= 107  
-3 <= Ni <= 25

**Output Format**

Paragraph in english consisting of lower case alphabets, spaces, newlines and full stops. That represents letter contents based on given input.

**Sample Input**

19  
8 -2 11 14 21 4 -2 24 14 20 -3 -1 18 8 12 17 0 13 -3

**Sample Output**

i love you.  
simran.

**Explanation**

**19** is **N** Represents count of numbers in second line.  
**8** represents **i**.  
**-2** represents **space**  
and so on...

#include <cmath>

#include <cstdio>

#include <vector>

#include <iostream>

#include <algorithm>

using namespace *std*;

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

*ios\_base*::*sync\_with\_stdio*(false);

*cin*.*tie*(*NULL*);

int t; *cin* >> t;

while (t--)

{

int num; *cin* >> num;

if (num == -3)

{

*printf*(".");

continue;

}

else if (num == -2)

{

*printf*(" ");

continue;

}

else if (num == -1)

{

*printf*("\n");

continue;

}

else

*printf*("%c", num + 97);

}

return 0;

}