## Square number game

After Van left the room Aayush and Akash stopped playing "The string game". They are now back to number game, but with different rules. They first decide a number $\mathrm{N}(1<=\mathrm{N}<=100000)$. And in each turn a player must subtract a perfact square from it which is not greater that the number itself. In this problem consider 1 as a perfact square number. Game end when the number becomes zero. Player who play the last move wins. Determine who will win the game provided that both of them play perfactly.

## Input

First line contains $T$ ( $1<=T<=10000$ ), the number of test cases. Following $T$ lines contain 1 integer each, the value of N .

## Output

For each test case print "Aayush" if Aayush wins else print "Akash".

## Example

## Input:

2
4
5

## Output:

Aayush
Akash

