

Grid painting

Aayush and Akash now want to try a game which involves painting. First of all they take an empty grid of size $1 \times N$ (1 cross N). Initially none of the cells is painted. Now they take their turn one by one with Aayush taking the first move. In each turn a player must select two consecutive unpainted cells and paint both of them. Whoever is unable to paint in his turn loses the game.

Input

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

Output

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

Example

Input:

```
2
1
2
```

Output:

```
Akash
Aayush
```