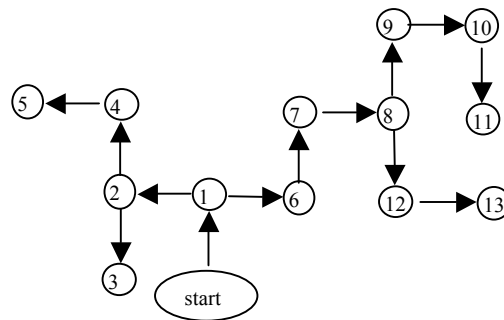


Pleasantville

Input File Pleasantville.txt

Each year on the fourth of July, the residents of Pleasantville conduct a treasure hunt with each homeowner providing a one word clue as to the location of the treasure. Beginning at house number 1, treasure hunters visit each of the town's houses once collecting a clue at each house. If the houses are visited in the correct order, the words form a sentence that describes the treasure and its location. Houses are numbered sequentially starting with 1.

All of the houses are at T intersections of three streets. As treasure hunters proceed down a street, they visit the house at the end of the street and collect that house's clue. Then, looking at the house, all the houses to the left are visited before the houses to the right are visited. For the houses shown below, the visitation order would be: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13.



Write a program to collect the clues and output the sentence that locates the treasure.

Inputs

The first line of input will be the number of treasure hunts. This will be followed by one grouping of inputs for each hunt. The first line of a grouping will contain the number of houses visited during that hunt. This will be followed by one line per house (in house number order) giving the house number, the number of the house to its left, the number of the house to its right, and the clue given out at the house. If there is no house to the left or right of a house, the non-existent adjacent house will be numbered -1.

Outputs

The treasure hunt sentences, one line per sentence.

Sample input

```
2
13
1      4      10    The
2      7      -1     a
3      9      -1     oak
4      12     2      treasure
5      -1     11     Evie's
6      -1     8      the
```

7	-1	-1	bowl
8	-1	-1	old
9	-1	-1	tree
10	5	-1	of
11	13	3	soup
12	-1	-1	is
13	-1	6	under
7			
1	3	-1	The
2	4	-1	found
3	5	-1	treasure
4	6	-1	inside
5	7	-1	is
6	-1	-1	oneself
7	2	-1	wisdom

Sample output

The treasure is a bowl of Evie's soup under the old oak tree

The treasure is wisdom found inside oneself