Apples

1 Problem Statement

Johnny has A apples. Bob gives him B more. Johnny then gives half, rounded up, to Sally. How many apples does Johnny have left?

2 Input

The first line of input contains a single integer $\boldsymbol{P}$, ($\mathbf{1} \leq \boldsymbol{P} \leq \mathbf{1000}$), which is the number of data sets that follow. Each data set should be processed identically and independently.

Each data set consists of a single line that contains $\boldsymbol{K}$, the data set number, followed by two numbers $\boldsymbol{A}$ and $\boldsymbol{B}$, ($\mathbf{0} \leq \boldsymbol{A}, \boldsymbol{B} \leq 5 \times 10^{18}$), where $\boldsymbol{A}$ is the number of apples that Johnny starts with and $\boldsymbol{B}$ is the number of apples that Bob gives him.

3 Output

For each data set there is a single line of output consisting of the data set number $\boldsymbol{K}$, followed by a space followed by the number of apples that Johnny has left at the end of the exchanges.

4 Test Data

Input	Output
3 1 4 2 2 1 2 3 7 7	1 3 2 1 3 7

Test Case #1
Johnny starts with 4 apples and gets 2 more. He gives half of his 6 apples, 3, to Sally, leaving him with 3.

Test Case #2
Johnny starts with 1 apple and gets 2 more. He gives 2 apples to Sally, being as he is generous and rounds up, leaving him with only 1.

Test Case #3
Johnny starts with 7 apples, gets 7 more, and gives 7 away, leaving him with 7.