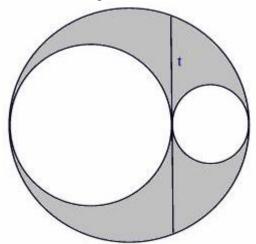
Problem GGeometry Paradox

Time Limit: 1 Second

In the picture below you can see two small circles touching each other. The larger circle touches both pf them. The length of the common tangent inscribed inside the larger circle is t and the radiuses of the two smaller circles are **r1** and **r2**. The centers of the three circles are collinear. You will be given the value of **r1** and **r2** or the value of **t**. You will have to find the area that is within the larger circle but out of the two smaller circles (marked gray in the picture). If the given data is not enough to find the gray area, print the line "Impossible." in a single line



Input

First line of the input file contains an integer N ($N \le 100$) which denotes how many sets of inputs are there. Each of the next N lines contain a set of input.

Each set either contains one or two integer. If it contains one integer then it is the value of t, otherwise the two values are the values of t and t. All these integers are less than t00

Output

For each line of input produce one line of output. This line contains the area of the gray part if the given information is enough to find the area of the gray part. Otherwise it contains the line "Impossible." The area should have four digits after the decimal point. Assume that $pi=2*cos^{-1}(0)$.

Sample Input

Output for Sample Input

2	628.3185
10 10	1884.9556
15 20	

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