

Description

A Wedding Cake is commonly formed by any positive number (even 10, as you can see below) of minor cakes. Each minor cake, in general cases (or at least for our problem), has a cylindrical form, with a radius and a height.

The task is as follow:

•Given the radius and height of the minor cakes, can you find the volume of the entire Wedding Cake?

### Input specification

In the first line, a integer number **1 <= T <= 100**, the number of tests. For each one:

- •One line containing a integer numbers, 1 <= N <= 10, the amount of minor cakes.
- •N lines, each one containing two space-separated integer number, 1 <= R <= 100 and 1 <= H <= 100, the radius and height of the i-th (1 <= i <= N) minor cake.

### Output specification

For each test case, you should print:

•The volume of the entire Wedding Cake, rounded up to two decimal places.

## Sample input

3

1

1 1

2.

1 1

2 2

5

2 3

#### Caribbean Online Judge

## Sample output

3.14

28.27

3142032.48

# Hint(s)

Source Yonny Mondelo Hernández

Added by ymondelo20

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Time limit (ms) 5000

Test limit (ms) 1000

Memory limit (kb) 130000

Output limit (mb) 64

Size limit (bytes) 15000

Enabled languages

Bash C C# C++ Java Pascal Perl PHP

Python Ruby Text