

AP Computer Science



Mr Hanley



Homework: Pythaorean Triples

Last Updated: **9/22/2017 1:24 PM**

Write a java program that finds Pythagorean triples in a certain year range
You may work alone or with one partner on this assignment

A pythagorean triple is when there are 3 integers that represent the sides of a right triangle such that $a^2 + b^2 = c^2$.

Example: 3, 4, 5

Given a year range find all the Pythagorean triples that exist in that year range.
Print the number of triples on a line by itself, followed by each of the triples.

The year is **always** considered the hypotenuse.

Example run throughs:

1st
2000
2008
2
3-4-5 (2005)
4-3-5 (2005)

2nd

1900

1999

12

3-4-5 (1905)

4-3-5 (1905)

6-8-10 (1910)

8-6-10 (1910)

5-12-13 (1913)

12-5-13 (1913)

9-12-15 (1915)

12-9-15 (1915)

8-15-17 (1917)

12-16-20 (1920)

7-24-25 (1925)

10-24-26 (1926)

No need to worry about leap years, I haven't found one yet that matches a Pythagorean triple on February 29th!!!!

Rubric	
Bulls eye	10
Basic House	10
Scales to 10 sizes	10
TOTAL	30

*Recursion*Linear Search*Binary Search*Grid World Case Study*File Processing *nlogn*Hangman*

