

Basic Java Performance Tasks

A) The Pythagorean Theorem

Ask the user if they want to provide you with two leg lengths or one leg and a hypotenuse of a triangle.

Using the information, provide the user with the missing side.

B) ODD / EVEN Game

Ask the user to choose odd or even. Generate a random integer and compare. If the user guesses correct, they earn a point. If not, the computer earns a point. First one (user vs computer) to earn 3 points wins.

C) Three Questions

The program asks a Great Oak student three questions Yes or No questions:

Do you play a sport?

Do you play an instrument?

Are you taking an AP or IB Course?

If 3 are true, the computer will respond "You must be really exhausted at the end of a day."

If any 2 are true, the computer will respond "You are really busy"

If any 1 is true, the computer will respond "Good job!"

If none are true, the computer will respond "You should really consider challenging yourself."

D) Perfect Numbers

Perfect numbers. Write a java program that finds the first three perfect numbers. (Hint: Google what a perfect number is, but not java program code. Create that yourself.)

E) The Farm

Create a conditional list of 4 animals that exist on a farm. Cow (Mooooo!), Chicken (Bwack!), Pig (Oink!) and Goat (Baaaaaa!!!).

Ask the user to type in an animal and print back the sound.

Hint: Use If, else If & the .equals method