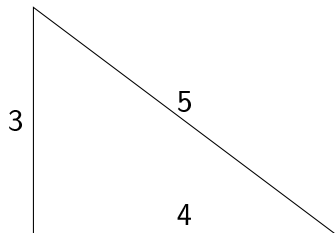


# Solution — 1 Point for each Correct Answer

Q 1: (3,4,5) a **valid** triangle

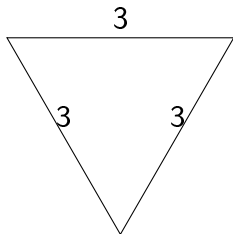


Not e.g. (1,4,1): **invalid** triangle



## Solution — 1 Point for each Correct Answer

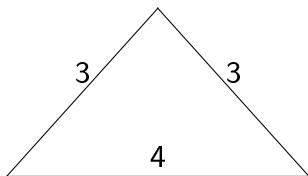
Q 2: (3,3,3) an **equilateral** triangle



# Solution — 1 Point for each Correct Answer

Q 3: (3,4,3) **valid isosceles** t.

Not e.g. (1,4,1): **invalid** triangle



## Solution — 1 Point for each Correct Answer

Q 4: all permutations of valid isosceles triangle  $(4,4,3)$ ,  $(3,4,4)$

## Solution — 1 Point for each Correct Answer

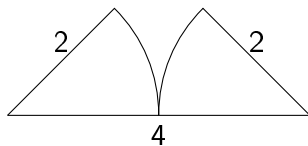
Q 5: one side with **zero** value (0,4,3)

## Solution — 1 Point for each Correct Answer

Q 6: one side with **negative** value  $(-1,4,3)$

## Solution — 1 Point for each Correct Answer

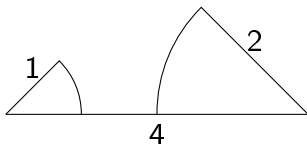
Q 7:  $(2,4,2)$  a **invalid** triangle with equal sum



Q 8: permutations of previous  $(2,2,4)$ ,  $(4,2,2)$

## Solution — 1 Point for each Correct Answer

Q 9: (1,4,2) a **invalid** triangle with unequal sum



Q 10: permutations of previous (1,2,4), (4,2,1)



## Solution — 1 Point for each Correct Answer

Q 11: all sides zero (0,0,0)

## Solution — 1 Point for each Correct Answer

Q 12: at least one value is non-integer (1,3,2.5)

## Solution — 1 Point for each Correct Answer

Q 13: wrong number of arguments (2,4) or (1,2,3,3)

## Solution — 1 Point for each Correct Answer

Q 14 (the most important one):

Did you specify the expected output in each case?

# About the Quiz

- ▶ Q 1–13 correspond to failures that have actually occurred in implementations of the program
- ▶ How many questions did you answer?  
< 5? 5 – 7? 8 – 10? > 10? All?

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- ▶ Q 1–13 correspond to failures that have actually occurred in implementations of the program
- ▶ How many questions did you answer?  
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- ▶ Highly qualified, experienced programmers score **7.8** on average