

Women in Computing

December 5, 2023 - Master Gold

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Something to
chew on...



Bus Driver



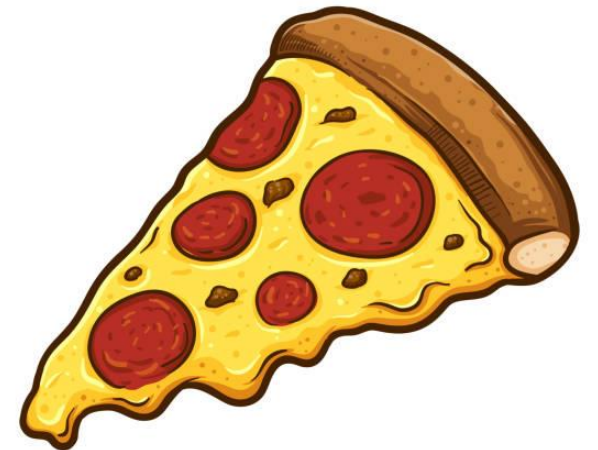
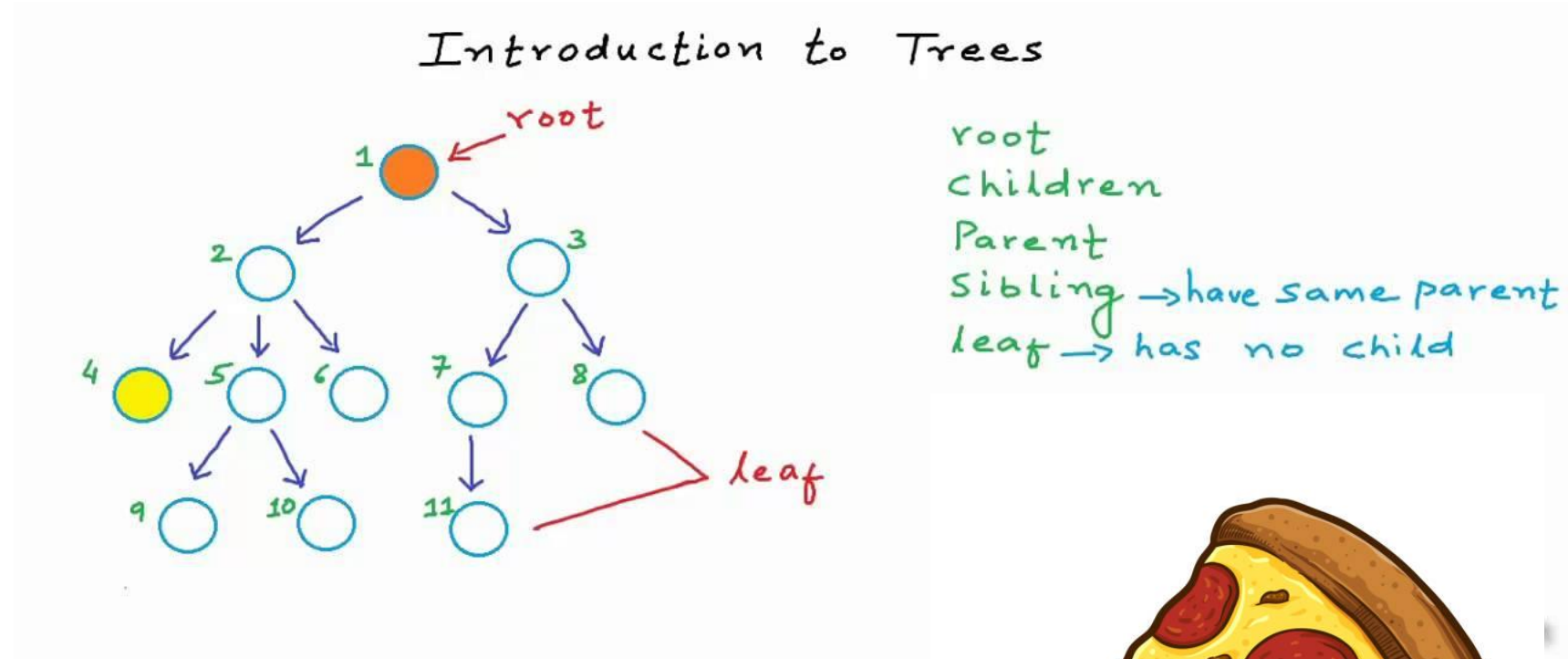
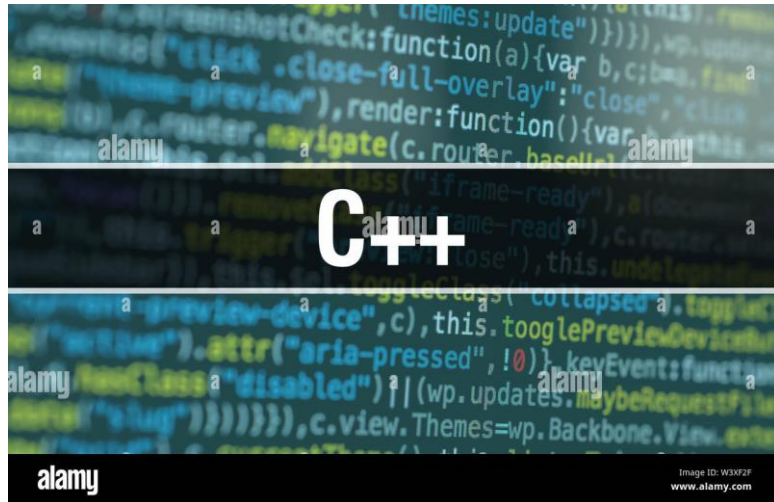
Riddle Setup

- **Riddle:** You are a bus driver at a station. 10 get on the bus and no one gets off. You drive 10 miles to another station where 3 people get on and 1 gets off. You drive another 10 miles only to get 25 people on and 5 people go off. Next you drive 3 miles while 12 people exit the bus. You drive back to the station knowing that there are a couple more stops along the way until the ride is done. At the 2nd to last station 5 people get on and 2 get off. And at the last station (5.5 miles) 25 people get on for no reason and 1 gets off.

Riddle Question

What is the bus driver's eye color?

How to become a CSULB Programming Team Coach



--ICPC --

International Collegiate Programming Contest



Source: Randy Piland, <http://icpcnews.com/>

Southern California Regional Contest CSULB 2023



ICPC Regional Contest @ Riverside CC

- All Day (9:00 AM to 9:00 PM)
- Teams of three
- Locked down environment
- One Hundred Teams from So-Cal Region
- Five Hour Contest
- One computer per team
- No electronics
- Anything hardcopy is fine
- Ten programming problems
- Submit a wrong solution – 20 minute penalty
- Team that solves most problems in least time WINNER!

Problem 2
Triangle Split

Your team is to write a program that, given a triangle on the 2-dimensional plane, finds the horizontal line of the form $y = a$ (i.e., parallel to the x -axis) that splits the triangle into two equal-area polygons.

The input is a series of 1 to 100 lines, terminated by end-of-file. Each line is a test case, with three pairs of space-separated integers, denoting the (x, y) coordinates of the vertices. The coordinates are between -5000 and 5000 , inclusive. The triangles are guaranteed to have positive area. In other words, no three vertices will be collinear.

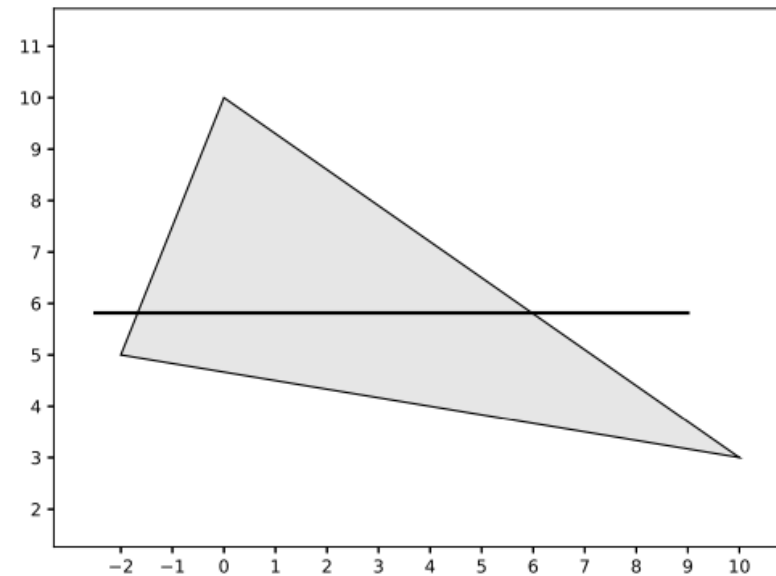
For each test case, print one line with the value of a that would divide the triangle in two equal-area polygons. Values within 10^{-5} (relative or absolute) of the judges' reference values are considered correct.

Sample Input

```
-10 10 -10 -10 25 0  
-2 5 0 10 10 3
```

Output for the Sample Input

```
0.0  
5.81670
```



CSULB Performance

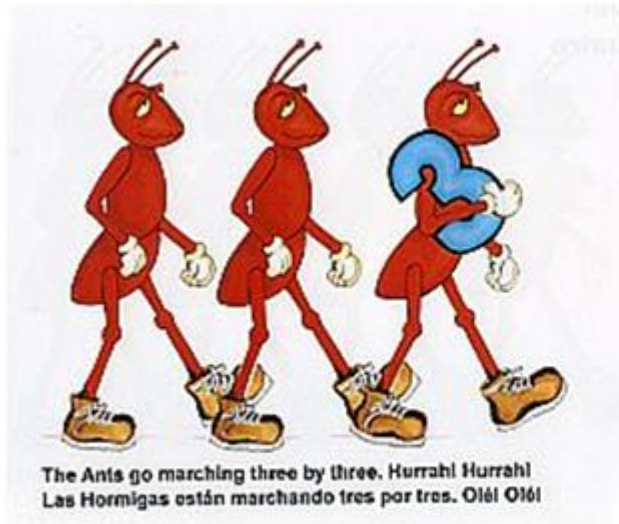
<http://socalcontest.org/current/index.shtml>

- 2023 -> 84 teams: 33, 40, 47, 69, 70
- 2022-> 59 teams: 44, 46, 48

Best Performance – Third 2007

3	acm105	The Sirius Cybernetics Corporati	5	1	12:34:39
	#	Solved	Runs	Time	
	1	*	2	1:18:50	
	2	*	1	0:26:07	
	3	-	0	0:00:00	
	4	*	1	3:11:44	
	5	*	1	4:47:05	
	6	-	0	0:00:00	
	7	*	1	2:30:53	

Ants on a Stick



Ants on a Stick

ACM Programming Practice

Feb 19, 2014

Problem #2