Name	2	Period
Sol	ving Problems	
	r Tasks (Mark these off as you go)  □ Complete the problems □ Pair up and reflect □ Compare algorithms □ Wrap up □ Share out □ Receive credit for this lab guide	
Toda <sup>,</sup> explo	Complete the prompts  y we are going to explore how computer scientists think about problem-so re will be recognizing patterns and similarities.  iew the problems below for one minute, and then move around the room	
nee	ded to solve the problems.  Prompt	Information
1	Find a person whose birthday is before yours	Information
2	Find a person whose birthday is after yours	
3	Find the person whose birthday is the closest before yours	
4	Find the person whose birthday is the closest after yours	
5	Find the person whose birthday is closest to yours	
6	Find the person with an equal number of birthdays before and after theirs	
7	Find the two people with the closest birthdays in the room	
8	Find the shortest period of time in which three people have birthdays	
9	Find the shortest period of time in which four people have birthdays	
10	Find the longest period of time in which no one has a birthday	
Loca	Pair up and reflect  ate the person(s) you found for prompt 5 above – it's ok if there is more the person.	an one. Write their name(s)

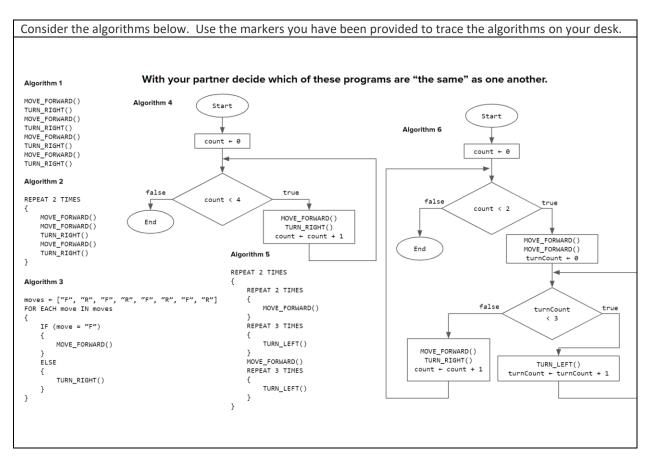
Person(s)

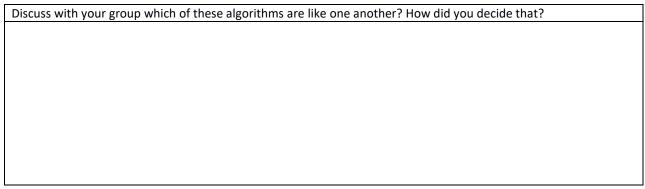
Fun fact(s)

Discuss the following prompts with your group. Write your responses below.		
How did you go about solving each of the problems?		
For which problems did you need to do something similar to solve them? For examples problems 1 & 2 are very similar.		
How many people are in the room? What is the probability that two people will have the same birthday based		
on the number of people. How did you arrive at this number?		
Watch the following video, <a href="https://youtu.be/ofTb57aZHZs">https://youtu.be/ofTb57aZHZs</a> . How does your prediction compare?		

## □ Compare algorithms

We just thought about whether problems are similar. Now we're going to look at whether we're solving the same problem.





## □ Wrap-up

In the first part of this activity, you had to solve a problem. In the second part of this activity, you explored		
algorithms. In the space below write a definition for each of these terms.		
Problem		
Algorithm		

## □ Receive credit for this lab guide

Submit this portion of the lab to Pluska to receive credit for the lab guide.