**Avi Punjabi's Instructions:**

Exit the classroom from the left door
Turn right
Go down the hallway until you reach a hallway on your left
Turn left
Go straight
Turn right at end of the hallway
Go straight until adjacent to stairs
Go down the stairs
Turn right
Exit building
Head southeast on Bizzell St toward Polo Rd
0.2 mi
Turn right
0.1 mi
Turn left onto Spence St
0.1 mi
Turn right
0.2 mi
Turn left
308 ft
Turn right
171 ft
Turn left
98 ft
Turn right
233 ft
Turn left
0.1 mi
Turn left toward Houston St
62 ft
Turn right toward Houston St
56 ft
Turn left onto Houston St
0.1 mi
Turn right
0.1 mi
Turn left onto Pickard Pass
476 ft
Take the pedestrian tunnel
0.1 mi
Turn right onto Corrington Dr
0.2 mi

Continue onto Reed Arena Lp

**Brian Tran's Instructions:**

Get up out of chair
Exit class on the left side door
Turn right and walk until there is a hallway on your left
Walk down the hallway until it ends
Turn right and walk along the staircase until you reach the opening
Walk down the stairs and take a right
Walk down the hallway until you reach the doors to exit Zach
After exiting Zach you should take another right and walk until you reach the sidewalk along the road
After turn right and walk down the sidewalk until you reach an intersection
Walk straight and cross the street
After Turn right and cross the street again
Walk until you reach a plaza with a waterfountail and turn left
Walk until you reach the 2nd opening on the right
Then take a left and walk all the way until you reach Joe Routt BLVD then take a right
Continue walking all the way down this road past Kyle field, and under the underpass
Until you reach Olsen RD and then cross the street in front of you
Then you will see Reed Arena on the left

**MJ Murray's Instructions:**

Start in room 218 on 2nd floor of Zachry Engineering Center sitting at table
Stand up from chair
Push chair in
Head to left door
Turn off lights
Open door
Walk out door and make sharp right
In approx. 10 yds turn left
In another 15 yds make sharp right along meeting rooms
In roughly 50 yds make a 180 as you turn slightly to the left and head down stairs
At bottom of stairs make a left and walk roughly 150 yds and head down few steps with the starbucks on your left
Then after you make it off stairs head to your left at 75 degrees angle and exit walking another 50 yds roughly
Head northwest on Bizzell St toward University Dr for about 80 yds
Cross crosswalk when walk person is shown and Turn left onto University Dr for 0.4 mi
Turn left onto Houston St 384 ft
Turn right 20 ft
Turn left 164 ft
Turn right 200 ft

Turn right toward Jones St 233 ft
Turn left toward Jones St 394 ft
Turn right onto Jones St 0.1 mi
Turn right onto Old Main Dr 0.2 mi
Turn left onto Olsen Blvd 0.1 mi
Turn right to stay on Olsen Blvd 338 ft
Turn left to stay on Olsen Blvd 36 ft
Turn right to stay on Olsen Blvd 52 ft
Turn left to stay on Olsen Blvd 0.1 mi
Slight right toward Reed Arena Lp 453 ft
Move slightly left and head for northwest entrance doors
Arrive and enter into Reed Arena

**Hudson Hurtig's Instructions:**

1. Get out of chair
2. Exit left door in room 207
3. Turn right towards the plank atrium
4. Go straight until you encounter a hallway on your left
5. Turn left leading towards ConocoPhillips Atrium and Leach Learning Resource Center
6. Go straight down the hallway until there's a hallway on your right
7. Turn right
8. Go straight until there's stairs next to you on your left
9. Go down stairs all the way
10. Turn right
11. Go all the way out the doors
12. Head northwest toward Spence St For 194 ft
13. Turn left onto Spence St For 0.3 mi
14. Turn right For 0.2 mi
15. Turn left For 308 ft
16. Turn right For 171 ft
17. Turn left For 98 ft
18. Turn right For 233 ft
19. Turn left For 0.1 mi
20. Turn left toward Houston St For 62 ft
21. Turn right toward Houston St For 56 ft
22. Turn left onto Houston St For 482 ft
23. Turn right onto Joe Routt Blvd For 0.2 mi
24. Continue onto John Kimbrough Blvd For 0.2 mi
25. Turn left onto Olsen Blvd For 92 ft
26. Slight right toward Reed Arena Lp For 453 ft
27. Turn left onto Reed Arena Lp

Destination will be on the right

Gabriel Isaac's Directions:

1. Get up from your seat.
2. Approach the classroom door.
3. Leave classroom
4. Approach stairs.
5. Go downstairs.
6. Leave Zach building through the doors
7. Take a left and go 410 feet until you hit university dr.
8. Continue Straight
9. Take a slight left turn, 0.85 miles on Olsen BLVD
10. Continue straight
11. Take a left onto the path after 940 feet
12. Continue straight
13. Take a slight right turn onto the nearest path after 100 ft
14. Continue straight
15. Take a slight right turn onto the path after 0.3 Miles
16. Continue Straight
17. Take a left onto the road after 160 feet
18. Continue straight
19. Take a left onto the path after 300 feet
20. Continue straight
21. Take a right onto the road and continue 160 feet
22. Arrived at reed arena.

a.
Which set of your team's sequences of steps did you identify as being the best? Why?

We decided that Hudson's set of steps were the best. He used a combination of exact measurements (0.2 mi, 233 ft, etc.) but he also gave visual descriptions. Additionally, we believe that he had the best way of explaining how to exit Zachry itself.

b.
In what ways were the sets of sequences that were produced different?

The exact layout/formatting of directions were different (similar to how the syntax of different programming languages are different).

c.
In what ways were the sets of sequences that were produced the same?

Of course, the directions all served the same purpose, and had the same starting and ending location. This is similar to how different programming languages often serve the same purpose. Besides Brian, we all also used direct exact measurements in feet and miles.

d.
Consider whether your choice of which of these would be the best set of instructions might change depending on the person following them. For example (you may think of other examples), would the best set change if:

i.
The person following them was already very familiar with campus, or had never set foot on campus.

If someone was more unfamiliar with campus then Brian's would be best because it relies the least on exact amounts of distance in feet/miles. If they were very familiar then Hudson's would be the best because it relies the most on prior knowledge of Zachry and of campus as a whole.

ii.
The person following the instructions was using a wheelchair, or the person following the instructions was interested in jogging.

All of our instructions involve stairs which mean they are not wheelchair accessible. MJ's instructions are best for jogging since it involves the least amount of turns.

iii.

The weather was dark and raining outside, or it's a beautiful and sunny 75° F. Briefly describe whether different sets of instructions might have been better options in other scenarios.

We don't believe that any instructions are particularly better than any others in the case of rain because they all involve roughly equal amounts of time outside. MJ's is best for nice, sunny weather since it's mostly straight next to a road so you can enjoy the sun.

e.

This was a very open-ended question. What questions might you have asked to begin with in order to better know how your sequential steps should have been written? The point here is to help you understand the importance of requirements gathering at the first stage of attacking a problem – make sure you are solving the problem someone needs solved, rather than the one you want to solve.

Clarifying the mode of transportation (bike, bus, car, walking, etc.) would be extremely important. For example, none of our instructions would work at all for a car or bus, and biking would require a extra steps involving retrieving and locking up the bike. As trivial as it may sound, being able to understand street signs and distances in feet and miles was assumed, though that may not always be the case.