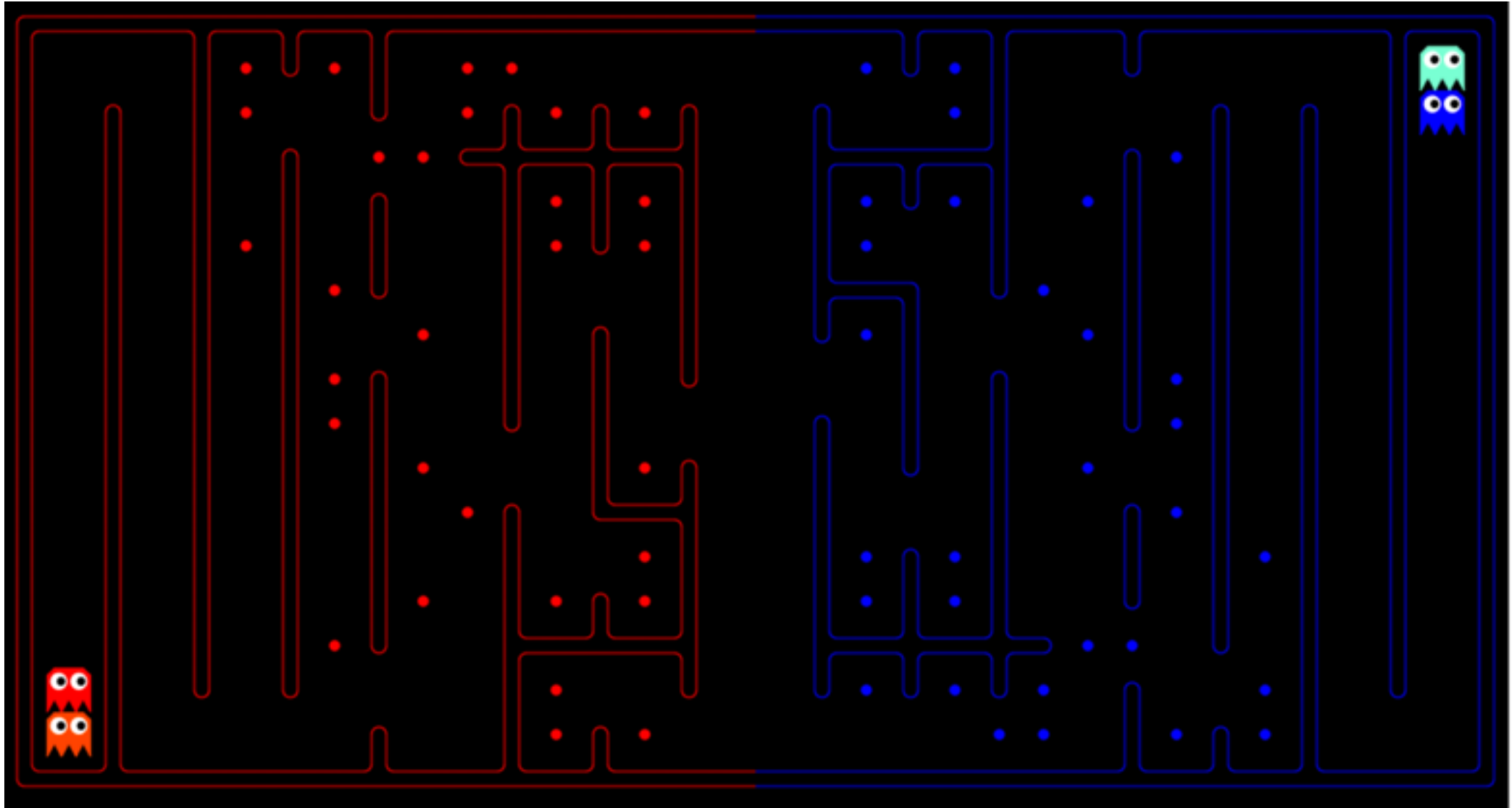


# Project 1 Mini-Contest



# Top 9

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- 4 A for Effort Sahil Doshi and Glen Chou
- 5 Ayyyy Dibya Ghosh
- 6 try Marwan Maalouf
- 7 Freddy Alex Yang
- 8 Dota2 Pro Players Chang Si Liu and Sikun Peng
- 9 George Omar Buenrostro

# Top 3 (in alphabetical order)

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- |                    |                                  |
|--------------------|----------------------------------|
| ■ DivideAndConquer | Alexander Ku                     |
| ■ tryna            | Rudra Mehta and Piyali Bannerjee |
| ■ Zuzu             | Robert Chuchro                   |

# DivideAndConquer

vs

Zuzu

## *Alexander Ku*

- Uses distance between Pacmen as a feature to be maximized so that they search different parts of the maze
- Strong negative utility for being on opponent's side when only 2 food pellets remain

## *Robert Chuchro*

- Assign top half of food to one agent, bottom half to the other
- Break down eating all food into several subproblems solved by A\*
- Heuristic: greatest distance between food plus shortest distance to pick up one of those pellets then return home

# DivideAndConquer

vs

tryna

## *Alexander Ku*

- Uses distance between Pacmen as a feature to be maximized so that they search different parts of the maze
- Strong negative utility for being on opponent's side when only 2 food pellets remain

## *Rudra Mehta and Piyali Banerjee*

- Split food based on y-coordinate and assign bottom half to one Pacman, top half to other Pacman
- Incentive for Pacmen to split up early so they are already on opposite halves once they reach opponent's side

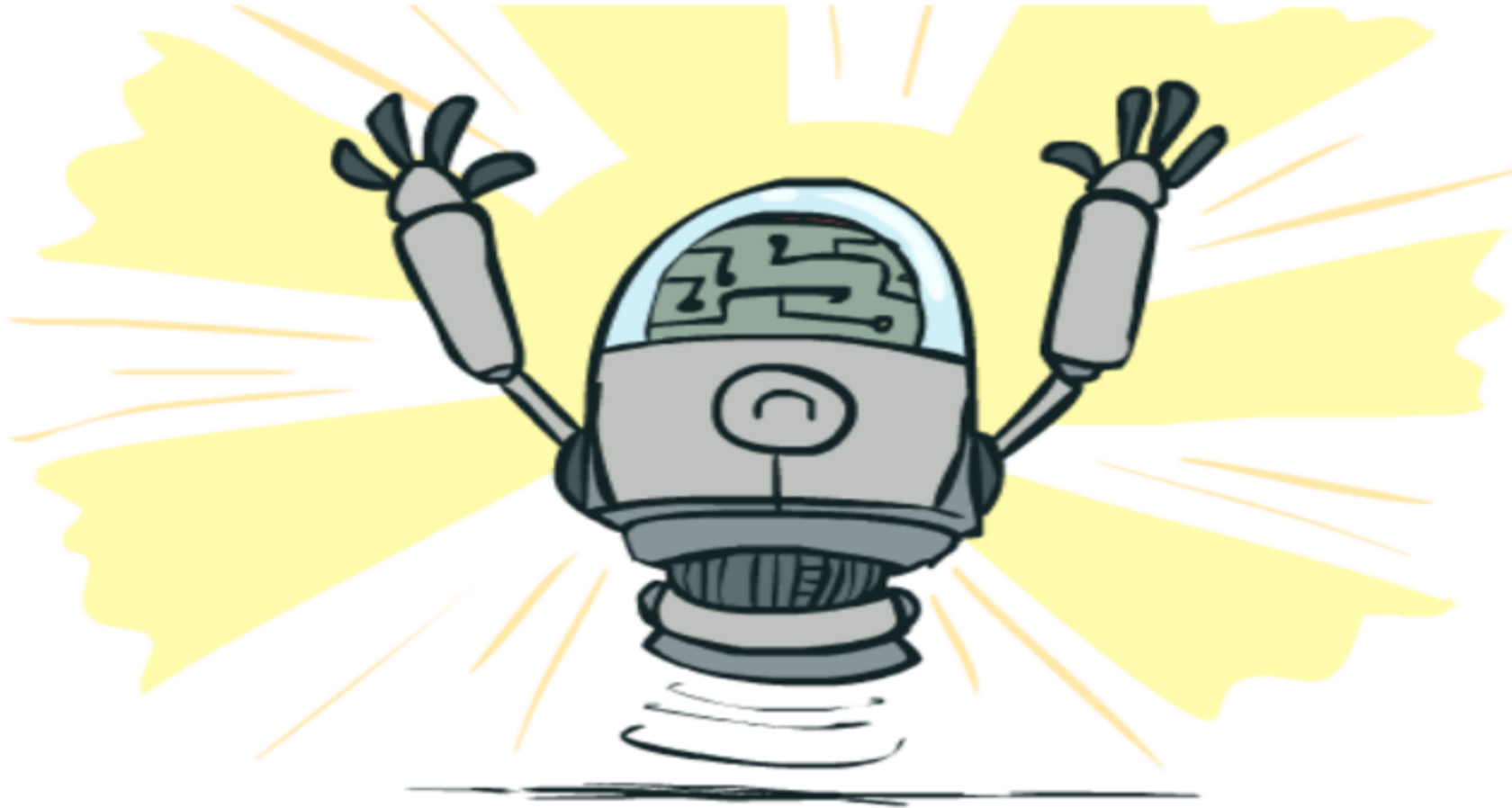
# Top 9

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- |     |                   |                                  |
|-----|-------------------|----------------------------------|
| ■ 1 | DivideAndConquer  | Alexander Ku                     |
| ■ 2 | tryna             | Audra Mehta and Piyali Bannerjee |
| ■ 3 | Zuzu              | Robert Chuchro                   |
| ■ 4 | A for Effort      | Sahil Doshi and Glen Chou        |
| ■ 5 | Ayyyyy            | Dibya Ghosh                      |
| ■ 6 | try               | Marwan Maalouf                   |
| ■ 7 | Freddy            | Alex Yang                        |
| ■ 8 | Dota2 Pro Players | Chang Si Liu and Sikun Peng      |
| ■ 9 | George            | Omar Buenrostro                  |

# Congratulations!

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# Project 2 Mini-Contest

