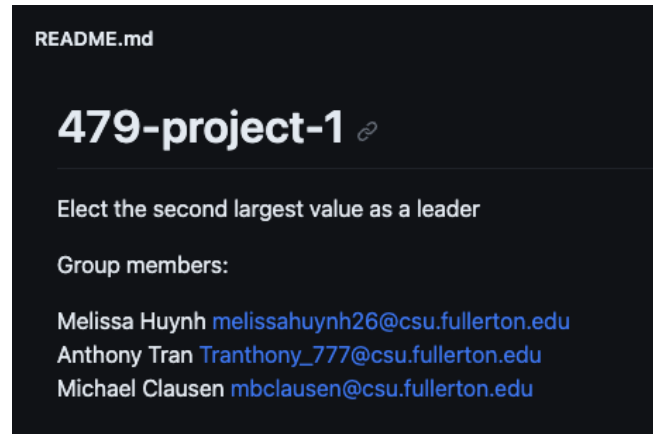


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## PDF Report Submission for Project 1



### Instructions

1. Ensure open mpi is installed
2. To Compile:

```
mpic++ main.cpp
```

3. To run:

<num of process> - must be greater than 5, if the user enters 5 or less it will prompt an error and exit.

```
mpirun -n <num of process> ./a.out
```

Example with 6 processes

```
[melissahuynh26@titanv1:~/479/project1$ mpirun -n 6 ./a.out
Rank 4 ID: 25104
Rank 3 ID: 79103
Rank 5 ID: 81105
Rank 1 ID: 62001
Rank 0 ID: 77100
Rank 2 ID: 14002
Process 3 has the second largest ID: 79103
```

## Example with 12 processes

```
[melissahuynh26@titanv1:~/479/project1$ mpirun -n 12 ./a.out  
Rank 7 ID: 38007  
Rank 8 ID: 15108  
Rank 9 ID: 70009  
Rank 10 ID: 94010  
Rank 2 ID: 35102  
Rank 4 ID: 85104  
Rank 6 ID: 15106  
Rank 3 ID: 92003  
Rank 1 ID: 83101  
Rank 0 ID: 15100  
Rank 11 ID: 61111  
Rank 5 ID: 65105  
Process 3 has the second largest ID: 92003
```