For all the demos, please make the file first and then run the executable (i.e. straights).

DEMO 1:

This is simple demo which shows us the commands "ragequit", "deck", "play", and "discard". Please run the executable with the argument 246 (i.e. ./straights 246) and then run the following lines:

- Once you start the program, you will be asked if the player is a human or a computer for each player. Press h each time and click enter.
- Then type ***pals 7S.*** This will show the output "Wrong command. Try again." twice.
- Then type ***ragequit***. This will show the output "Player4 ragequits. A computer will now takeover."
- Type ***play 7S***. This will output "This is not a legal play."
- Type ***play 7H***. This will output "Player1 plays 7H".
- Type ***deck***. This will output the whole shuffled deck.
- Type ***play 8H***.
- Type ***discard 7S***. This will output "You do not have this card in your hand. Try again."
- Type ***discard JC***. This will output "Player3 discards JC".
- Type ***discard 6C***. This will output "Player1 discards 6C".
- Here if you give any other command other than the ones given, it will show an output that this is a wrong command and will ask you to try again.
- Type ***ragequit***. Player2 will ragequit.
- Type ***discard 5S***. This will output "You have a legal play."
- Type ***play 5S***.
- Type ***discard 5H***.
- Type ***play 3S***.
- Type ***discard 10S***.
- Type ***play 9S***
- Type ***play 10C***.
- Type ***play 2S***.
- Type ***play AS***.
- Type ***play 9D***.
- Type ***play 10H***.
- Type ***play 10D***.
- Type ***play 4D***.
- Type ***ragequit***.
- Type ***play 3D***.
- Type ***play AD***.
- Type ***play 3H.*** "Wrong command. Try again."
- Type ***discard 4C***.
- Type ***ragequit***. All players are computers now. The program will end now and the end screenshot is given below.

```
Clubs: 5 6 7 8 9 10 J Q
Your hand: 4H 4C
Legal plays: 4C
Player3 plays 4C
Spades: 3 4 5 6 7 8 9 10 J Q K
Hearts: 7 8 9 10
Diamonds: A 2 3 4 5 6 7 8 9 10 J Q K
Clubs: 4 5 6 7 8 9 10 J Q
Your hand: 6H JH
Legal plays: 6H JH
Player4 plays 6H
Spades: 3 4 5 6 7 8 9 10 J Q K
Hearts: 6 7 8 9 10
Diamonds: A 2 3 4 5 6 7 8 9 10 J Q K
Clubs: 4 5 6 7 8 9 10 J Q
Your hand: KH 2H
Legal plays:
Player1 discards KH
Spades: 3 4 5 6 7 8 9 10 J Q K
Hearts: 6 7 8 9 10
Diamonds: A 2 3 4 5 6 7 8 9 10 J Q K
Clubs: 4 5 6 7 8 9 10 J Q
Your hand: 3C
Legal plays: 3C
Player2 plays 3C
Spades: 3 4 5 6 7 8 9 10 J Q K
Hearts: 6 7 8 9 10
Diamonds: A 2 3 4 5 6 7 8 9 10 J Q K
Clubs: 3 4 5 6 7 8 9 10 J Q
Your hand: 4H
Legal plays:
Player3 discards 4H
Spades: 3 4 5 6 7 8 9 10 J Q K
Hearts: 6 7 8 9 10
Diamonds: A 2 3 4 5 6 7 8 9 10 J Q K
Clubs: 3 4 5 6 7 8 9 10 J Q
Your hand: JH
Legal plays: JH
Player4 plays JH
Spades: 3 4 5 6 7 8 9 10 J Q K
Hearts: 6 7 8 9 10 J
Diamonds: A 2 3 4 5 6 7 8 9 10 J Q K
Clubs: 3 4 5 6 7 8 9 10 J Q
Your hand: 2H
Legal plays:
Player1 discards 2H
Player1's discards: 2S 2C AC AS KH 2H
Player1's score: 57 + 21 = 78
Player2's discards: QH 3H
Player2's score: 30 + 15 = 45
Player3's discards: AH KC 5H 4H
Player3's score: 65 + 23 = 88
Player4's discards:
Player4's score: 19 + 0 = 19
Player4 wins!
richie@richie-20:~/Desktop/projects/straights/project$
```

Demo 2:

This is simple demo which shows us the commands "quit". Please run the executable with the argument 246 (i.e. ./straights 246) and then run the following lines:

- Once you start the program, you will be asked if the player is a human or a computer for each player. Press any other key than h and c, and the output "Wrong input" will come and then ask you again.
- Enter c for three players and h for one player.
- **(OPTIONAL)** You can enter any other command to test it out.
- Enter ***quit***. The program will terminate immediately. The end screenshot is given below.

```
h
Is Player2 a human (h) or a computer (c)?
c
Is Player3 a human (h) or a computer (c)?
c
Is Player4 a human (h) or a computer (c)?
c
A new round begins. It's Player4's turn to play.
Spades:
Hearts:
Diamonds:
Clubs:
Your hand: 6S 4S 8S 5C KD KS JH QH AH 8D 7D 9H 7S

Legal plays: 7S
Player4 plays 7S
Spades: 7
Hearts:
Diamonds:
Clubs:
Your hand: 3D 4D 6C 7H 3H 10C AD 10S 4C 5H 10H AS AC

Legal plays: 7H
> play 7H
Player1 plays 7H
Spades: 7
Hearts: 7
Diamonds:
Clubs:
Your hand: 8H 5D 6H 3C KH 9C 2D JD 2C 6D KC 7C 8C

Legal plays: 7C 8H 6H
Player2 plays 7C
Spades: 7
Hearts: 7
Diamonds:
Clubs: 7
Your hand: QC 10D 2S 5S JC QS 3S 9S JS QD 4H 9D 2H

Legal plays:
Player3 discards QC
Spades: 7
Hearts: 7
Diamonds:
Clubs: 7
Your hand: 6S 4S 8S 5C KD KS JH QH AH 8D 7D 9H
Legal plays: 6S 8S 7D
Player4 plays 6S
Spades: 6 7
Hearts: 7
Diamonds:
Clubs: 7
Your hand: 3D 4D 6C 3H 10C AD 10S 4C 5H 10H AS AC
Legal plays: 6C
> quit
richie@richie-20:~/Desktop/projects/straights/project$
```

Demo 3:

This is a simple demo for all computer players. Run the program and enter c for each player initialization. The game will terminate when someone scores more than 80.

Demo 4:

This is simple demo which shows us what happens if we press “Ctrl+D” in between the program. Please run the executable with the any or no argument and then run the following lines:

- Once you start the program, you will be asked if the player is a human or a computer for each player. Enter h for three players and c for one player.
- **(OPTIONAL)** You can enter any other command to test it out.
- Press ***Ctrl+D***. The program will terminate immediately. The end screenshot is given below.

```
richie@richie-20:~/Desktop/projects/straights/project$ ./straights 246
Is Player1 a human (h) or a computer (c)?
h
Is Player2 a human (h) or a computer (c)?
h
Is Player3 a human (h) or a computer (c)?
h
Is Player4 a human (h) or a computer (c)?
c
A new round begins. It's Player4's turn to play.
Spades:
Hearts:
Diamonds:
Clubs:
Your hand: 6S 4S 8S 5C KD KS JH QH AH 8D 7D 9H 7S

Legal plays: 7S
Player4 plays 7S
Spades: 7
Hearts:
Diamonds:
Clubs:
Your hand: 3D 4D 6C 7H 3H 10C AD 10S 4C 5H 10H AS AC

Legal plays: 7H
> play 7H
Player1 plays 7H
Spades: 7
Hearts: 7
Diamonds:
Clubs:
Your hand: 8H 5D 6H 3C KH 9C 2D JD 2C 6D KC 7C 8C

Legal plays: 7C 8H 6H
> richie@richie-20:~/Desktop/projects/straights/project$
```