



California State University Long Beach

CECS 282 – Section 01 – Advanced C++ Programming

PROGRAM 01

**SOLITAIRE
PRIME**

Professor: Steve Gold

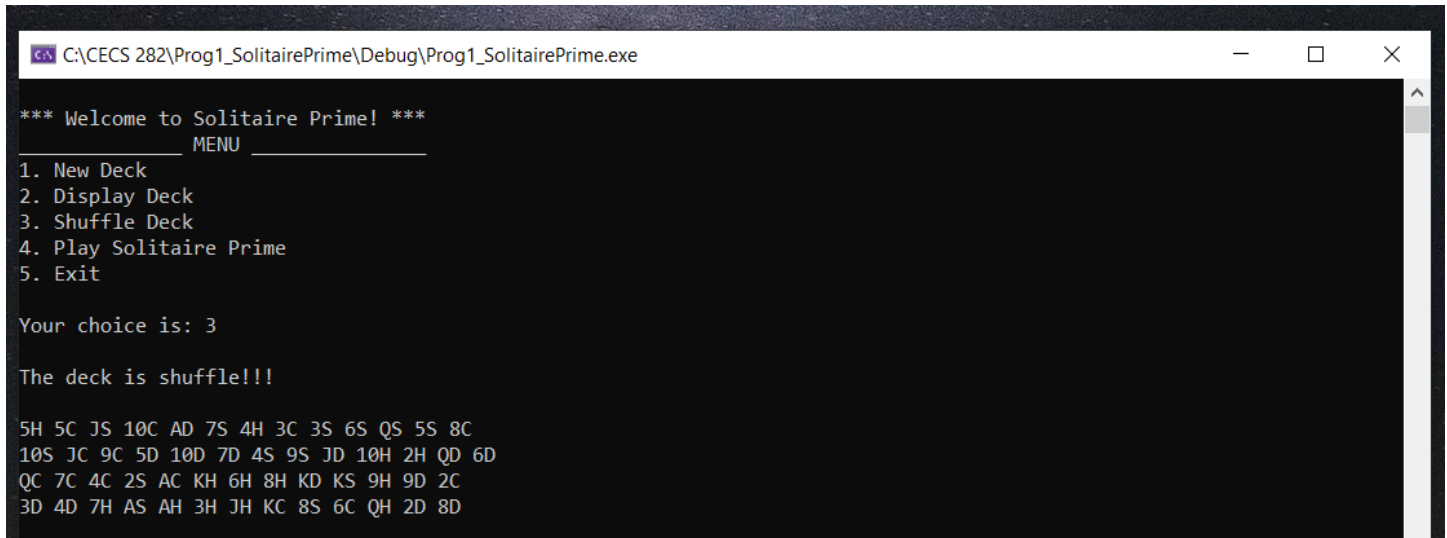
Student name: Thanh Nguyen

Class: CECS 282 – Section 01

Due date: 09/14/2020

Screenshot:

- Shuffle the deck:



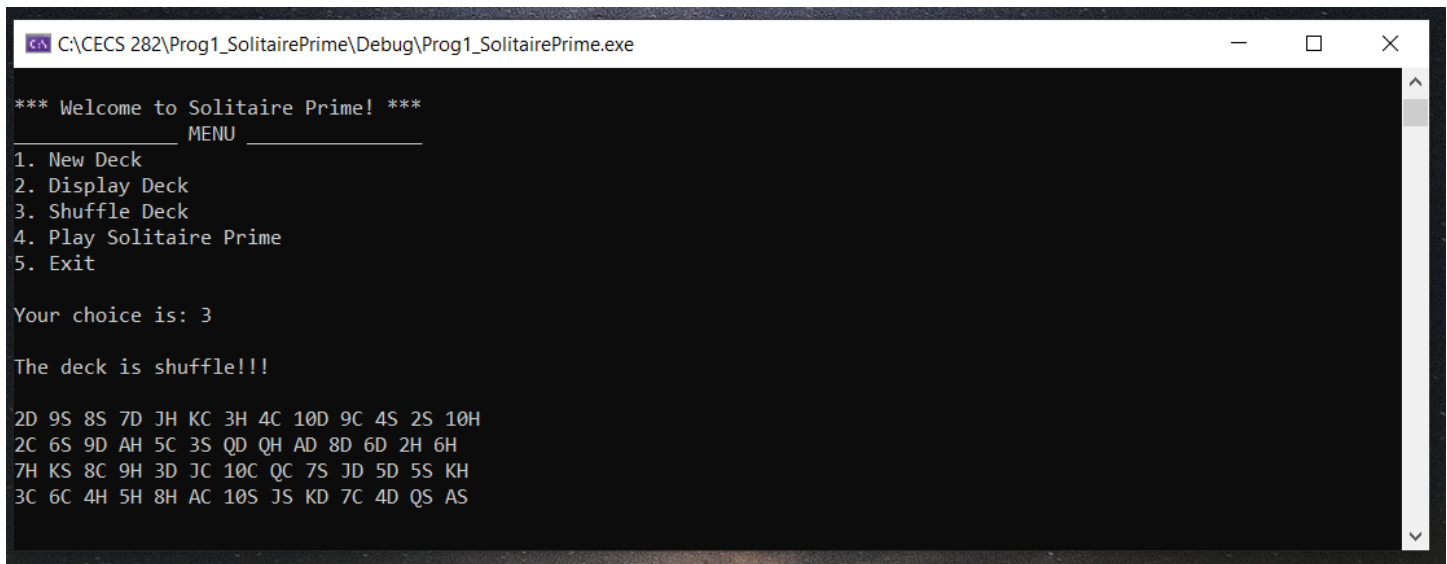
```
C:\CECS 282\Prog1_SolitairePrime\Debug\Prog1_SolitairePrime.exe

*** Welcome to Solitaire Prime! ***
      MENU
1. New Deck
2. Display Deck
3. Shuffle Deck
4. Play Solitaire Prime
5. Exit

Your choice is: 3

The deck is shuffle!!!

5H 5C JS 10C AD 7S 4H 3C 3S 6S QS 5S 8C
10S JC 9C 5D 10D 7D 4S 9S JD 10H 2H QD 6D
QC 7C 4C 2S AC KH 6H 8H KD KS 9H 9D 2C
3D 4D 7H AS AH 3H JH KC 8S 6C QH 2D 8D
```



```
C:\CECS 282\Prog1_SolitairePrime\Debug\Prog1_SolitairePrime.exe

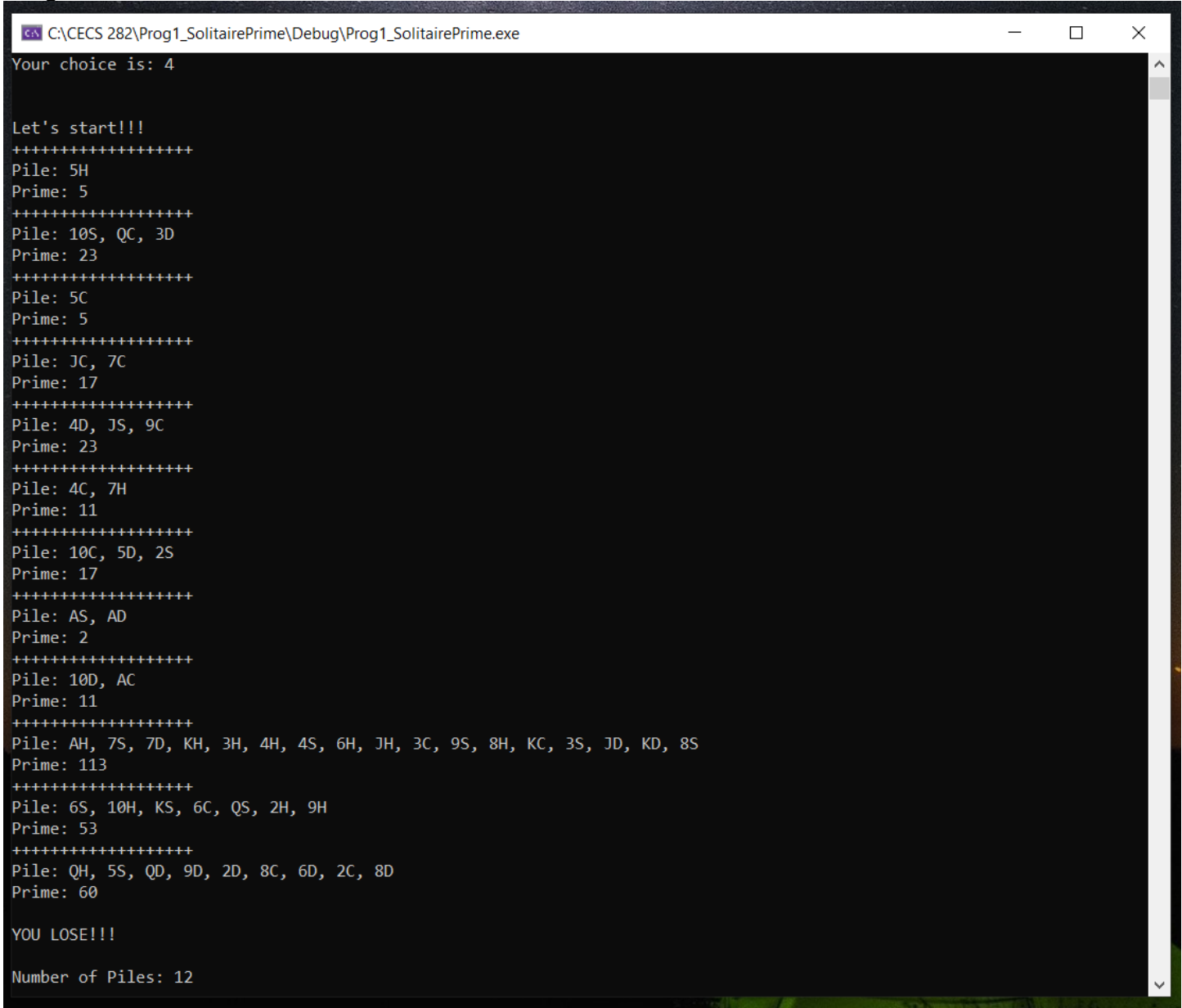
*** Welcome to Solitaire Prime! ***
      MENU
1. New Deck
2. Display Deck
3. Shuffle Deck
4. Play Solitaire Prime
5. Exit

Your choice is: 3

The deck is shuffle!!!

2D 9S 8S 7D JH KC 3H 4C 10D 9C 4S 2S 10H
2C 6S 9D AH 5C 3S QD QH AD 8D 6D 2H 6H
7H KS 8C 9H 3D JC 10C QC 7S JD 5D 5S KH
3C 6C 4H 5H 8H AC 10S JS KD 7C 4D QS AS
```

- Loser screenshot:



```
C:\CECS 282\Prog1_SolitairePrime\Debug\Prog1_SolitairePrime.exe
Your choice is: 4

Let's start!!!
+++++
Pile: 5H
Prime: 5
+++++
Pile: 10S, QC, 3D
Prime: 23
+++++
Pile: 5C
Prime: 5
+++++
Pile: 3C, 7C
Prime: 17
+++++
Pile: 4D, JS, 9C
Prime: 23
+++++
Pile: 4C, 7H
Prime: 11
+++++
Pile: 10C, 5D, 2S
Prime: 17
+++++
Pile: AS, AD
Prime: 2
+++++
Pile: 10D, AC
Prime: 11
+++++
Pile: AH, 7S, 7D, KH, 3H, 4H, 4S, 6H, JH, 3C, 9S, 8H, KC, 3S, JD, KD, 8S
Prime: 113
+++++
Pile: 6S, 10H, KS, 6C, QS, 2H, 9H
Prime: 53
+++++
Pile: QH, 5S, QD, 9D, 2D, 8C, 6D, 2C, 8D
Prime: 60

YOU LOSE!!!

Number of Piles: 12
```

- Winner screenshot:

```
C:\CECS 282\Prog1_SolitairePrime\Debug\Prog1_SolitairePrime.exe

Let's start!!!
+++++
Pile: 2D
Prime: 2
+++++
Pile: 2C
Prime: 2
+++++
Pile: 7H
Prime: 7
+++++
Pile: 3C
Prime: 3
+++++
Pile: 9S, 6S, KS, 6C
Prime: 31
+++++
Pile: 8S, 9D
Prime: 17
+++++
Pile: 8C, 4H, 7D
Prime: 19
+++++
Pile: AH, 9H, 5H, JH, 5C, 3D, 8H
Prime: 41
+++++
Pile: KC, 3S
Prime: 13
+++++
Pile: JC, AC
Prime: 11
+++++
Pile: 3H
Prime: 3
+++++
Pile: QD, 10C, 10S, 4C, QH, QC, JS, 10D, AD, 7S, KD, 9C
Prime: 101
+++++
Pile: 8D, JD, 7C, 4S
```

```
C:\CECS 282\Prog1_SolitairePrime\Debug\Prog1_SolitairePrime.exe

+++++
Pile: 8D, JD, 7C, 4S
Prime: 29
+++++
Pile: 6D, 5D
Prime: 11
+++++
Pile: 4D, 2S, 2H, 5S
Prime: 13
+++++
Pile: QS, 10H, 6H, KH, AS
Prime: 37

YOU WIN!!!

Number of Piles: 16
```