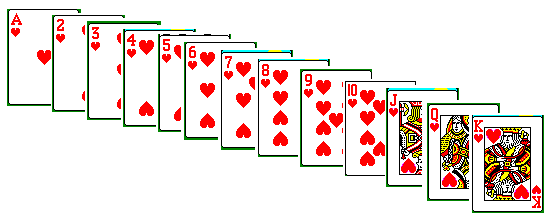
STRATEGY FOR SEQUENCING THE PLAYING CARDS

To start with, consider the cards to be opened in the **sequence** of card value, *A, 2, 3, 4, 5, 6, 7, 8, 9, 10, J, Q*, and *K*. There are *13* cards in the suit of any given color.

The opened **queue**, this was also the given sequence of cards:



ALGORITHM FOR ALTERNATE STRATEGY

Given Sequence of Cards in an array:

A

2

4

5

3

6

7

8

9

10

J

Q

K

###### Initialize current last card of the given sequence of cards

Loop For all cards in the given sequence

Get the current last card from the given sequence of cards

Insert the current last card into the shuffled queue

If the shuffled queue is not empty

Remove the last card from the shuffled queue

Insert the removed card into shuffled queue

Adjust the current last card

End Loop

Shffled queue:

7

1

2

8

Q

3

J

4

9

5

K

6

10

**Iteration 1:**  Current last card

A

2

4

5

3

6

7

8

9

10

J

Q

K

Insert

Empty shuffled queue

K

Current last card into

K

shuffled queue

Remove card

Insert

shuffled queue

K

Removed card into

**Iteration 2:** Current last card

A

2

4

5

3

6

7

8

9

10

J

Q

K

Q

shuffled queue

K

Insert into

Q

shuffled queue

K

Remove card

K

shuffled queue

Q

Insert into

**Iteration 3:** Current last card

J

A

2

4

5

3

6

7

8

9

10

J

Q

K

Q

K

shuffled queue

Insert into

Q

K

J

shuffled queue

Remove card

Insert into

K

J

shuffled queue

Q

**Iteration 4:** Current last card

10

A

2

4

5

3

6

7

8

9

10

J

Q

K

K

J

shuffled queue

Q

Insert into

K

J

Q

shuffled queue

10

Remove card

Insert into

K

J

Q

10

shuffled queue

**Iteration 5:** Current last card

9

A

2

4

5

3

6

7

8

9

10

J

Q

K

10

J

Q

shuffled queue

K

Insert into

9

J

Q

10

shuffled queue

K

Remove card

Insert into

Q

10

K

9

shuffled queue

J

**Iteration 6:** Current last card

8

A

2

4

5

3

6

7

8

9

10

J

Q

K

9

J

Q

K

shuffled queue

10

Insert into

J

8

9

Q

K

shuffled queue

10

Remove card

Insert into

10

K

9

J

8

shuffled queue

Q

**Iteration 7:** Current last card

7

A

2

4

5

3

6

7

8

9

10

J

Q

K

Q

9

J

8

K

shuffled queue

10

Insert into

J

8

9

Q

K

shuffled queue

10

Remove card

Insert into

K

9

J

8

Q

7

shuffled queue

10

**Iteration 8:** Current last card

6

A

2

4

5

3

6

7

8

9

10

J

Q

K

10

K

J

8

Q

9

shuffled queue

7

Insert into

10

Q

7

8

K

J

S Q

9

6

Remove card

Insert into

9

J

8

Q

7

10

6

shuffled queue

K

**Iteration 9:** Current last card

5

A

2

4

5

3

6

7

8

9

10

J

Q

K

6

9

8

Q

7

J

SQ

10

K

###### Insert into

5

6

K

10

8

7

S Q

Q

J

9

remove

Insert into

J

8

Q

7

10

6

K

5

SQ queue

9

Iteration 10

4

A

2

4

5

3

6

7

8

9

10

J

Q

K

6

K

8

Q

7

J

SQ

SQ

10

5

9

Insert into SQ

10

Q

7

8

K

J

SQ

9

4

5

6

8

Q

7

10

6

K

5

9

4

SQ

J

**ALTERNATE STRATEGY FOR SEQUENCING CARDS (contd)**

**Iteration 11:** Current last card

3

A

2

4

5

3

6

7

8

9

10

J

Q

K

4

J

K

Q

7

10

8

6

5

9

10

3

Q

7

8

K

6

5

9

4

J

Q

7

10

6

K

5

9

4

J

8

3

Current last card **Iteration 12:**

2

3

10

K

5

8

Q

9

7

6

J

4

K

Q

J

10

9

8

7

6

5

4

3

2

A

3

10

K

5

8

2

Q

9

7

6

J

4

Q

3

10

K

5

8

2

9

7

6

J

4

Current last card **Iteration 13:**

A

3

10

K

5

8

2

Q

9

7

6

J

4

A

2

4

5

3

6

7

8

9

10

J

Q

K

A

3

10

K

5

8

2

Q

9

7

6

J

4

10

6

K

5

9

4

J

3

8

2

Q

A

7