Black Box Test Plan for SomewhatMoreSimplifiedSolitaire

The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C.

Test ID	Description	Expected Results	Actual Results
Testing Jokers in Middle of Deck with Joker B prior to Joker A (EC) Dr. King	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started Enter the deck of cards: **1 4 7 10 13 3 6 9 12 15 14 2 5 8 11** Do you want to (E)ncrypt or (D)ecrypt? **E** Enter message: **HELLO**	TPVPR	TPVPR
Testing Jokers in Middle of Deck with Joker B prior to Joker A (EC) Dr. King	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started Enter the deck of cards: **1 4 7 10 13 3 6 9 12 15 14 2 5 8 11** Do you want to (E)ncrypt or (D)ecrypt? **D** Enter message: **TPVPR**	HELLO	HELLO
Testing the letter Z (B)	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started	LZY	LZY

	Enter the deck of cards: **1 4 7 10 13 3 6 9 12 15 14 2 5 8 11** Do you want to (E)ncrypt or (D)ecrypt? **E** Enter message: **ZOO**		
Testing the letter Z (B)	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started Enter the deck of cards: **1 4 7 10 13 3 6 9 12 15 14 2 5 8 11** Do you want to (E)ncrypt or (D)ecrypt? **D** Enter message: **LZY**	ZOO	ZOO
Testing the letter A (B)	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started Enter the deck of cards: **1 4 7 10 13 3 6 9 12 15 14 2 5 8 11** Do you want to (E)ncrypt or (D)ecrypt? **E** Enter message: **ANT**	MYD	NYD
Testing the letter A (B)	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started	ANT	BNT

	Enter the deck of cards: **1 4 7 10 13 3 6 9 12 15 14 2 5 8 11** Do you want to (E)ncrypt or (D)ecrypt? **D** Enter message: **MYD**		
Testing Jokers in Middle of Deck with Joker A prior to Joker B (EC)	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started Enter the deck of cards: **1 4 7 10 13 3 6 9 12 14 15 2 5 8 11** Do you want to (E)ncrypt or (D)ecrypt? **E** Enter message: **ANT**	CXC	DXC
Testing Jokers in Middle of Deck with Joker A prior to Joker B (EC)	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started Enter the deck of cards: **1 4 7 10 13 3 6 9 12 14 15 2 5 8 11** Do you want to (E)ncrypt or (D)ecrypt? **D** Enter message: **CXC**	ANT	BNT
Testing Jokers in Beginning of Deck	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started	CVZ	DVZ

with Joker B prior to Joker A (EC)	Enter the deck of cards: **15 14 1 4 7 10 13 3 6 9 12 2 5 8 11** Do you want to (E)ncrypt or (D)ecrypt? **E** Enter message: **ANT**		
Testing Jokers in Beginning of Deck with Joker B prior to Joker A (EC)	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started Enter the deck of cards: **15 14 1 4 7 10 13 3 6 9 12 2 5 8 11** Do you want to (E)ncrypt or (D)ecrypt? **D** Enter message: **CVZ**	ANT	BNT
Testing Jokers in End of Deck with Joker B prior to Joker A (EC)	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started Enter the deck of cards: **1 4 7 10 13 3 6 9 12 2 5 8 11 15 14** Do you want to (E)ncrypt or (D)ecrypt? **E** Enter message: **ANT**	MXH	ERROR Exception in thread "main" java.lang.StringIndexOutOfBoundsException: String index out of range: -1
Testing Jokers in End of Deck with	*Preconditions:* SomewhatMoreSimplifiedSolitaire program started	ANT	ERROR

Joker B prior to Joker A (EC)	Enter the deck of cards: **1 4 7 10 13 3 6 9 12 2 5 8 11 15 14** Do you want to (E)ncrypt or (D)ecrypt? **E** Enter message: **MXH**		Exception in thread "main" java.lang.StringIndexOutOfBoundsException: String index out of range: -1

Notes

1. ZOO (E)
    a. Z
        i.   1 4 7 10 13 3 6 9 12 15 14 2 5 8 11
        ii. 1 4 7 10 13 3 6 9 12 15 2 14 5 8 11
        iii. 1 4 7 10 13 3 6 9 12 2 14 15 5 8 11
        iv. 5 8 11 14 15 1 4 7 10 13 3 6 9 12 2
        v.   11 14 15 1 4 7 10 13 3 6 9 <u>12</u> 5 8 2
    b. O
        i.   11 14 15 1 4 7 10 13 3 6 9 12 5 8 2
        ii. 11 15 14 1 4 7 10 13 3 6 9 12 5 8 2
        iii. 11 14 1 15 4 7 10 13 3 6 9 12 5 8 2
        iv. 4 7 10 13 3 6 9 12 5 8 2 14 1 15 11
        v.   14 1 15 4 7 10 13 3 6 9 12 5 8 2 <u>11</u>
    c. O
        i.   14 1 15 4 7 10 13 3 6 9 12 5 8 2 11
        ii. 1 14 15 4 7 10 13 3 6 9 12 5 8 2 11
        iii. 1 14 4 7 15 10 13 3 6 9 12 5 8 2 11
        iv. 10 13 3 6 9 12 5 8 2 11 14 4 7 15 1
        v.   13 3 6 9 12 5 8 2 11 14 4 7 15 <u>10</u> 1

2. LZY (D)
3. ANT (E)
    a. A
        i.   1 4 7 10 13 3 6 9 12 15 14 2 5 8 11
        ii.   1 4 7 10 13 3 6 9 12 15 2 14 5 8 11
        iii. 1 4 7 10 13 3 6 9 12 2 14 15 5 8 11
        iv.   5 8 11 14 15 1 4 7 10 13 3 6 9 12 2
        v.   11 14 15 1 4 7 10 13 3 6 9 <u>12</u> 5 8 2
    b. N
        i.   11 14 15 1 4 7 10 13 3 6 9 12 5 8 2
        ii.   11 15 14 1 4 7 10 13 3 6 9 12 5 8 2
        iii. 11 14 1 15 4 7 10 13 3 6 9 12 5 8 2
        iv.   4 7 10 13 3 6 9 12 5 8 2 14 1 15 11
        v.   14 1 15 4 7 10 13 3 6 9 12 5 8 2 <u>11</u>
    c. T
        i.   14 1 15 4 7 10 13 3 6 9 12 5 8 2 11
        ii.   1 14 15 4 7 10 13 3 6 9 12 5 8 2 11
        iii. 1 14 4 7 15 10 13 3 6 9 12 5 8 2 11
        iv.   10 13 3 6 9 12 5 8 2 11 14 4 7 15 1
        v.   13 3 6 9 12 5 8 2 11 14 4 7 15 <u>10</u> 1
4. MYD (D)
5. ANT (E)
    a. A
        i.   1 4 7 10 13 3 6 9 12 14 15 2 5 8 11
        ii.   1 4 7 10 13 3 6 9 12 15 14 2 5 8 11
        iii. 1 4 7 10 13 3 6 9 12 14 2 15 5 8 11
        iv.   5 8 11 14 2 15 1 4 7 10 13 3 6 9 12
        v.   6 9 5 8 11 14 <u>2</u> 15 1 4 7 10 13 3 12
    b. N
        i.   6 9 5 8 11 14 2 15 1 4 7 10 13 3 12

        ii.   6 9 5 8 11 2 14 15 1 4 7 10 13 3 12
        iii.   6 9 5 8 11 2 14 1 4 15 7 10 13 3 12
        iv.   7 10 13 3 12 14 1 4 15 6 9 5 8 11 2
        v.   13 3 12 14 1 4 15 6 9 5 8 11 7 <u>10</u> 2

   c. T
        i.   13 3 12 14 1 4 15 6 9 5 8 11 7 10 2
        ii.   13 3 12 1 14 4 15 6 9 5 8 11 7 10 2
        iii. 13 3 12 1 14 4 6 9 15 5 8 11 7 10 2
        iv.   5 8 11 7 10 2 14 4 6 9 15 13 3 12 1
        v.   8 11 7 10 2 14 4 6 <u>9</u> 15 13 3 12 5 1

6. CXC (D)
7. ANT (E)
   a. A
        i.   15 14 1 4 7 10 13 3 6 9 12 2 5 8 11
        ii.   15 1 14 4 7 10 13 3 6 9 12 2 5 8 11
        iii. 1 14 15 4 7 10 13 3 6 9 12 2 5 8 11
        iv.   4 7 10 13 3 6 9 12 2 5 8 11 14 15 1
        v.   7 10 13 3 6 9 12 <u>2</u> 5 8 11 14 15 4 1

   b. N
        i.   7 10 13 3 6 9 12 2 5 8 11 14 15 4 1
        ii.   7 10 13 3 6 9 12 2 5 8 11 15 14 4 1
        iii. 7 10 13 3 6 9 12 2 5 8 11 14 4 15 1
        iv.   1 14 4 15 7 10 13 3 6 9 12 2 5 8 11
        v.   2 5 <u>8</u> 1 14 4 15 7 10 13 3 6 9 12 11

   c. T
        i.   2 5 8 1 14 4 15 7 10 13 3 6 9 12 11
        ii.   2 5 8 1 4 14 15 7 10 13 3 6 9 12 11
        iii. 2 5 8 1 4 14 7 10 15 13 3 6 9 12 11
        iv.   13 3 6 9 12 11 14 7 10 15 2 5 8 1 4
        v.   12 11 14 7 10 15 2 5 8 1 13 3 <u>6</u> 9 4

8. CVZ (D)
9. ANT (E)
    a. A
        i. 1 4 7 10 13 3 6 9 12 2 5 8 11 15 14
        ii. 14 4 7 10 13 3 6 9 12 2 5 8 11 15 1
        iii. 15 4 7 10 13 3 6 9 12 2 5 8 11 1 14
        iv. 14 4 7 10 13 3 6 9 12 2 5 8 11 1 15
        v. 4 15 7 10 13 3 6 9 12 2 5 8 11 1 14
        vi. 3 6 9 <u>12</u> 2 5 8 11 1 14 15 7 10 13 4
    b. N
        i. 3 6 9 12 2 5 8 11 1 14 15 7 10 13 4
        ii. 3 6 9 12 2 5 8 11 1 15 14 7 10 13 4
        iii. 3 6 9 12 2 5 8 11 1 14 7 15 10 13 4
        iv. 10 13 4 14 7 15 3 6 9 12 2 5 8 11 1
        v. 13 4 14 7 15 3 6 9 12 2 5 8 11 <u>10</u> 1
    c. T
        i. 13 4 14 7 15 3 6 9 12 2 5 8 11 10 1
        ii. 13 4 7 14 15 3 6 9 12 2 5 8 11 10 1
        iii. 13 4 7 14 3 6 15 9 12 2 5 8 11 10 1
        iv. 9 12 2 5 8 11 10 1 14 3 6 15 13 4 7
        v. 1 <u>14</u> 3 6 15 13 4 9 12 2 5 8 11 10 7
10. MXH (D)