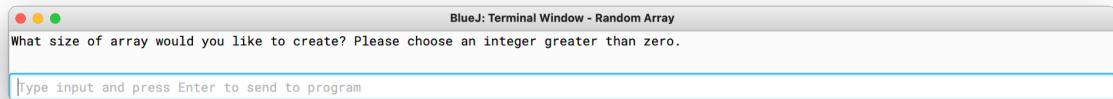


RandomArray Test Exhibits

Initial prompt



Run 1

```
BlueJ: Terminal Window - Random Array
What size of array would you like to create? Please choose an integer greater than zero. 33
The maximum value found in the array is: 32
The minimum value found in the array is: 0
The average of the values in the array is: 15.696969696969697
The values in the array are:
32      22      30      15      3
19      26      21      2      9
5       0       10      16      20
29      30      7       7      10
25      23      2       26      17
0       28      4       16      16
10      19      19

Would you like to create a new random array (Y/N)?
```

Type input and press Enter to send to program

Subsequent prompt

```
BlueJ: Terminal Window - Random Array
23      23      2      20      11
0       28      4       16      16
10      19      19

Would you like to create a new random array (Y/N)? y

What size of array would you like to create? Please choose an integer greater than zero.
```

Type input and press Enter to send to program

Run 2

BlueJ: Terminal Window - Random Array

```
What size of array would you like to create? Please choose an integer greater than zero. 125
The maximum value found in the array is: 125
The minimum value found in the array is: 0
The average of the values in the array is: 61.648
The values in the array are:
115      28      84      121      13
84      65      55      15       4
83       5      40      53      22
22     124      18      90      76
9       47      41       9     115
82       47      12      83      31
125      94      20      41     121
2       67      29      81      54
115     111      56      26      82
35       71     115      2       38
62       90      49      99      32
17       36      62      64      95
28       96     111      42     111
47       37      97      52       2
67       62     114      24     111
36       43      96      13      37
90     104      91      99     100
73       88      15       11      19
88     107      58     122      71
26       74      81     120     116
90       50      93       0     115
84       12       0      37      62
66       43      67      37      40
25       86     121      38      58
57     100      42      47      73

Would you like to create a new random array (Y/N)?
Type input and press Enter to send to program
```

Array size < 0

BlueJ: Terminal Window - Random Array

```
What size of array would you like to create? Please choose an integer greater than zero. 0
What size of array would you like to create? Please choose an integer greater than zero. -1
What size of array would you like to create? Please choose an integer greater than zero. -2
Type input and press Enter to send to program
```

Run 3

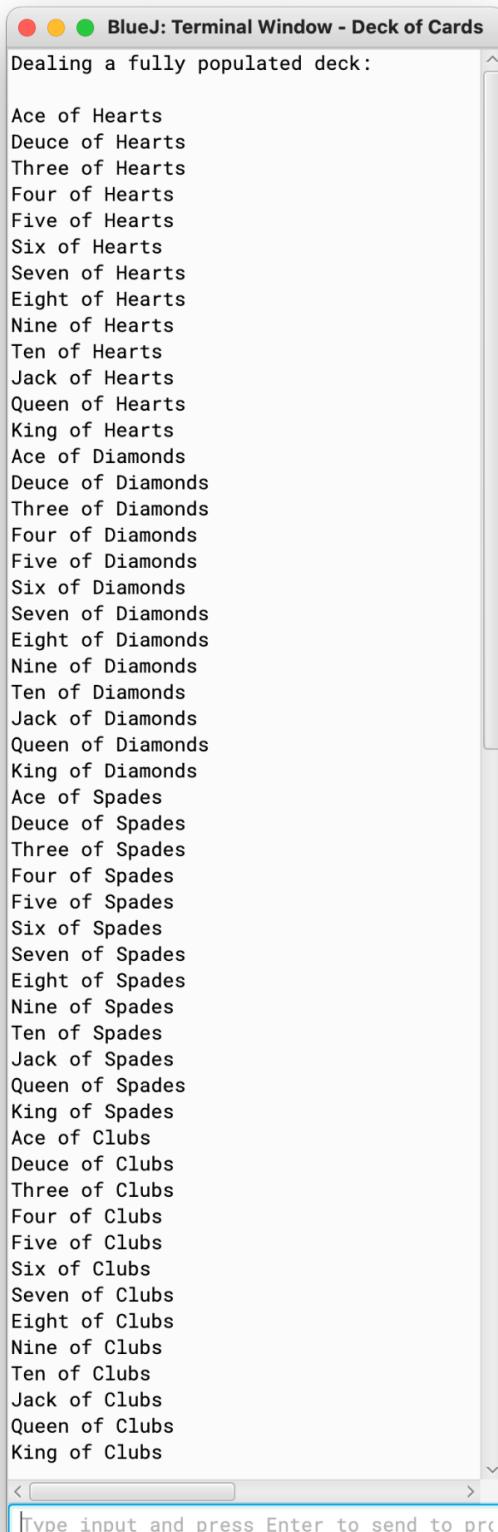
BlueJ: Terminal Window - Random Array

```
What size of array would you like to create? Please choose an integer greater than zero. 1
The maximum value found in the array is: 0
The minimum value found in the array is: 0
The average of the values in the array is: 0.0
The values in the array are:
0

Would you like to create a new random array (Y/N)?
Type input and press Enter to send to program
```

DeckOfCards

Run 1



The screenshot shows a BlueJ terminal window titled "BlueJ: Terminal Window - Deck of Cards". The window displays a list of 52 card values, representing a fully populated deck. The cards are listed in four suits: Hearts, Diamonds, Spades, and Clubs. Each suit contains cards from Ace to King. The output is as follows:

```
Dealing a fully populated deck:  
Ace of Hearts  
Deuce of Hearts  
Three of Hearts  
Four of Hearts  
Five of Hearts  
Six of Hearts  
Seven of Hearts  
Eight of Hearts  
Nine of Hearts  
Ten of Hearts  
Jack of Hearts  
Queen of Hearts  
King of Hearts  
Ace of Diamonds  
Deuce of Diamonds  
Three of Diamonds  
Four of Diamonds  
Five of Diamonds  
Six of Diamonds  
Seven of Diamonds  
Eight of Diamonds  
Nine of Diamonds  
Ten of Diamonds  
Jack of Diamonds  
Queen of Diamonds  
King of Diamonds  
Ace of Spades  
Deuce of Spades  
Three of Spades  
Four of Spades  
Five of Spades  
Six of Spades  
Seven of Spades  
Eight of Spades  
Nine of Spades  
Ten of Spades  
Jack of Spades  
Queen of Spades  
King of Spades  
Ace of Clubs  
Deuce of Clubs  
Three of Clubs  
Four of Clubs  
Five of Clubs  
Six of Clubs  
Seven of Clubs  
Eight of Clubs  
Nine of Clubs  
Ten of Clubs  
Jack of Clubs  
Queen of Clubs  
King of Clubs
```

The terminal window has scroll bars on the right side. At the bottom, there is an input field with the placeholder text "Type input and press Enter to send to pro".

BlueJ: Terminal Window - Deck of Cards

```
Dealer is now shuffling the deck...

Dealer to deal a card... it's the Deuce of Clubs.      51 cards remain in the deck
Dealer to deal a card... it's the Ace of Spades.       50 cards remain in the deck
Dealer to deal a card... it's the Four of Spades.      49 cards remain in the deck
Dealer to deal a card... it's the King of Spades.      48 cards remain in the deck
Dealer to deal a card... it's the Ace of Hearts.        47 cards remain in the deck
Dealer to deal a card... it's the Six of Diamonds.     46 cards remain in the deck
Dealer to deal a card... it's the Eight of Diamonds.    45 cards remain in the deck
Dealer to deal a card... it's the Seven of Spades.     44 cards remain in the deck
Dealer to deal a card... it's the Ten of Hearts.       43 cards remain in the deck
Dealer to deal a card... it's the Nine of Hearts.      42 cards remain in the deck
Dealer to deal a card... it's the Queen of Hearts.     41 cards remain in the deck
Dealer to deal a card... it's the Ace of Diamonds.      40 cards remain in the deck
Dealer to deal a card... it's the Three of Diamonds.   39 cards remain in the deck
Dealer to deal a card... it's the Five of Clubs.       38 cards remain in the deck
Dealer to deal a card... it's the Six of Clubs.        37 cards remain in the deck
Dealer to deal a card... it's the Four of Clubs.       36 cards remain in the deck
Dealer to deal a card... it's the Ten of Diamonds.     35 cards remain in the deck
Dealer to deal a card... it's the Jack of Spades.      34 cards remain in the deck
Dealer to deal a card... it's the Six of Spades.        33 cards remain in the deck
Dealer to deal a card... it's the Deuce of Hearts.     32 cards remain in the deck
Dealer to deal a card... it's the Three of Clubs.      31 cards remain in the deck
Dealer to deal a card... it's the Deuce of Spades.      30 cards remain in the deck
Dealer to deal a card... it's the Seven of Hearts.     29 cards remain in the deck
Dealer to deal a card... it's the Ten of Spades.        28 cards remain in the deck
Dealer to deal a card... it's the Jack of Clubs.       27 cards remain in the deck
Dealer to deal a card... it's the Queen of Spades.     26 cards remain in the deck
Dealer to deal a card... it's the Four of Diamonds.    25 cards remain in the deck
Dealer to deal a card... it's the Three of Spades.     24 cards remain in the deck
Dealer to deal a card... it's the Four of Hearts.      23 cards remain in the deck
Dealer to deal a card... it's the Five of Diamonds.    22 cards remain in the deck
Dealer to deal a card... it's the Nine of Spades.      21 cards remain in the deck
Dealer to deal a card... it's the Nine of Diamonds.    20 cards remain in the deck
Dealer to deal a card... it's the Seven of Clubs.      19 cards remain in the deck
Dealer to deal a card... it's the Deuce of Diamonds.   18 cards remain in the deck
Dealer to deal a card... it's the Seven of Diamonds.   17 cards remain in the deck
Dealer to deal a card... it's the Jack of Hearts.      16 cards remain in the deck
Dealer to deal a card... it's the Eight of Hearts.     15 cards remain in the deck
Dealer to deal a card... it's the Queen of Clubs.      14 cards remain in the deck
Dealer to deal a card... it's the Queen of Diamonds.   13 cards remain in the deck
Dealer to deal a card... it's the Nine of Clubs.       12 cards remain in the deck
Dealer to deal a card... it's the King of Hearts.      11 cards remain in the deck
Dealer to deal a card... it's the Eight of Spades.     10 cards remain in the deck
Dealer to deal a card... it's the Ten of Clubs.        9 cards remain in the deck
Dealer to deal a card... it's the Five of Spades.      8 cards remain in the deck
Dealer to deal a card... it's the Five of Hearts.      7 cards remain in the deck
Dealer to deal a card... it's the King of Diamonds.    6 cards remain in the deck
Dealer to deal a card... it's the Jack of Diamonds.    5 cards remain in the deck
Dealer to deal a card... it's the Three of Hearts.     4 cards remain in the deck
Dealer to deal a card... it's the King of Clubs.       3 cards remain in the deck
Dealer to deal a card... it's the Six of Hearts.        2 cards remain in the deck
Dealer to deal a card... it's the Ace of Clubs.        1 cards remain in the deck
Dealer to deal a card... it's the Eight of Clubs.      0 cards remain in the deck

Would you like to deal a new deck of cards (Y/N)?
Type input and press Enter to send to program
```

Run 2

```
BlueJ: Terminal Window - Deck of Cards
Would you like to deal a new deck of cards (Y/N)? y
Dealing a fully populated deck:
Ace of Hearts
Deuce of Hearts
Three of Hearts
Four of Hearts
Five of Hearts
Six of Hearts
Seven of Hearts
Eight of Hearts
Nine of Hearts
Ten of Hearts
Jack of Hearts
Queen of Hearts
King of Hearts
Ace of Diamonds
Deuce of Diamonds
Three of Diamonds
Four of Diamonds
Five of Diamonds
Six of Diamonds
Seven of Diamonds
Eight of Diamonds
Nine of Diamonds
Ten of Diamonds
Jack of Diamonds
Queen of Diamonds
King of Diamonds
Ace of Spades
Deuce of Spades
Three of Spades
Four of Spades
Five of Spades
Six of Spades
Seven of Spades
Eight of Spades
Nine of Spades
Ten of Spades
Jack of Spades
Queen of Spades
King of Spades
Ace of Clubs
Deuce of Clubs
Three of Clubs
Four of Clubs
Five of Clubs
Six of Clubs
Seven of Clubs
Eight of Clubs
Nine of Clubs
Ten of Clubs
Jack of Clubs
Queen of Clubs
King of Clubs
Type input and press Enter to send to program
```

BlueJ: Terminal Window - Deck of Cards

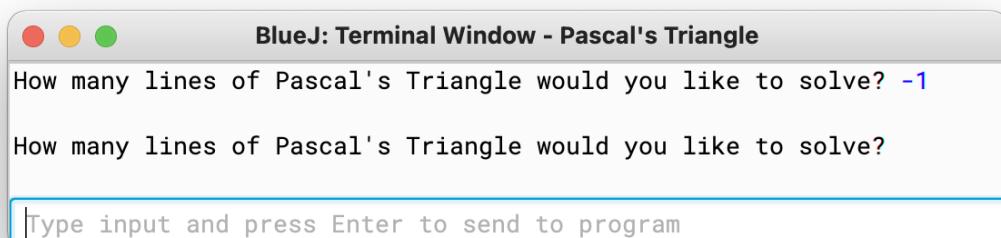
```
Dealer is now shuffling the deck...

Dealer to deal a card... it's the Seven of Diamonds.      51 cards remain in the deck
Dealer to deal a card... it's the Ace of Spades.          50 cards remain in the deck
Dealer to deal a card... it's the Eight of Clubs.         49 cards remain in the deck
Dealer to deal a card... it's the Queen of Hearts.        48 cards remain in the deck
Dealer to deal a card... it's the Five of Spades.         47 cards remain in the deck
Dealer to deal a card... it's the Seven of Hearts.        46 cards remain in the deck
Dealer to deal a card... it's the Jack of Diamonds.       45 cards remain in the deck
Dealer to deal a card... it's the Jack of Clubs.          44 cards remain in the deck
Dealer to deal a card... it's the King of Diamonds.       43 cards remain in the deck
Dealer to deal a card... it's the Six of Clubs.           42 cards remain in the deck
Dealer to deal a card... it's the Nine of Spades.         41 cards remain in the deck
Dealer to deal a card... it's the Nine of Clubs.          40 cards remain in the deck
Dealer to deal a card... it's the Deuce of Clubs.         39 cards remain in the deck
Dealer to deal a card... it's the Eight of Diamonds.       38 cards remain in the deck
Dealer to deal a card... it's the Nine of Diamonds.        37 cards remain in the deck
Dealer to deal a card... it's the Queen of Diamonds.       36 cards remain in the deck
Dealer to deal a card... it's the Ace of Clubs.           35 cards remain in the deck
Dealer to deal a card... it's the Ten of Spades.          34 cards remain in the deck
Dealer to deal a card... it's the Deuce of Diamonds.       33 cards remain in the deck
Dealer to deal a card... it's the Ten of Diamonds.         32 cards remain in the deck
Dealer to deal a card... it's the King of Hearts.         31 cards remain in the deck
Dealer to deal a card... it's the Eight of Spades.         30 cards remain in the deck
Dealer to deal a card... it's the Five of Clubs.          29 cards remain in the deck
Dealer to deal a card... it's the Three of Diamonds.       28 cards remain in the deck
Dealer to deal a card... it's the Five of Hearts.          27 cards remain in the deck
Dealer to deal a card... it's the Six of Hearts.          26 cards remain in the deck
Dealer to deal a card... it's the Four of Spades.         25 cards remain in the deck
Dealer to deal a card... it's the Three of Clubs.         24 cards remain in the deck
Dealer to deal a card... it's the Eight of Hearts.         23 cards remain in the deck
Dealer to deal a card... it's the Four of Clubs.          22 cards remain in the deck
Dealer to deal a card... it's the Six of Spades.          21 cards remain in the deck
Dealer to deal a card... it's the King of Spades.         20 cards remain in the deck
Dealer to deal a card... it's the Four of Hearts.         19 cards remain in the deck
Dealer to deal a card... it's the King of Clubs.          18 cards remain in the deck
Dealer to deal a card... it's the Four of Diamonds.       17 cards remain in the deck
Dealer to deal a card... it's the Nine of Hearts.         16 cards remain in the deck
Dealer to deal a card... it's the Seven of Clubs.         15 cards remain in the deck
Dealer to deal a card... it's the Jack of Spades.         14 cards remain in the deck
Dealer to deal a card... it's the Five of Diamonds.       13 cards remain in the deck
Dealer to deal a card... it's the Three of Spades.        12 cards remain in the deck
Dealer to deal a card... it's the Deuce of Spades.        11 cards remain in the deck
Dealer to deal a card... it's the Deuce of Hearts.        10 cards remain in the deck
Dealer to deal a card... it's the Jack of Hearts.         9 cards remain in the deck
Dealer to deal a card... it's the Seven of Spades.        8 cards remain in the deck
Dealer to deal a card... it's the Ten of Hearts.          7 cards remain in the deck
Dealer to deal a card... it's the Three of Hearts.        6 cards remain in the deck
Dealer to deal a card... it's the Queen of Clubs.         5 cards remain in the deck
Dealer to deal a card... it's the Ten of Clubs.          4 cards remain in the deck
Dealer to deal a card... it's the Six of Diamonds.        3 cards remain in the deck
Dealer to deal a card... it's the Ace of Diamonds.        2 cards remain in the deck
Dealer to deal a card... it's the Ace of Hearts.          1 cards remain in the deck
Dealer to deal a card... it's the Queen of Spades.        0 cards remain in the deck

Would you like to deal a new deck of cards (Y/N)?
Type input and press Enter to send to program
```

Pascal's Triangle Test Exhibits

Line -1:

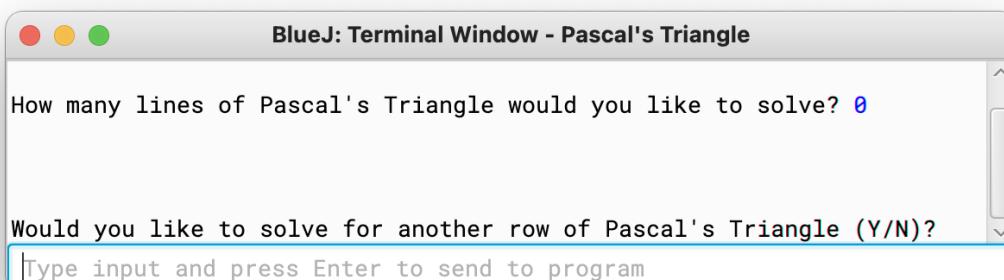


BlueJ: Terminal Window - Pascal's Triangle

```
How many lines of Pascal's Triangle would you like to solve? -1
How many lines of Pascal's Triangle would you like to solve?

|Type input and press Enter to send to program
```

Line 0:

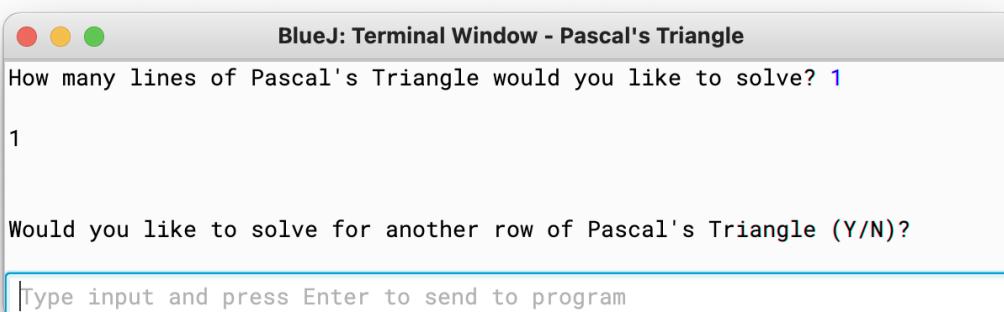


BlueJ: Terminal Window - Pascal's Triangle

```
How many lines of Pascal's Triangle would you like to solve? 0
Would you like to solve for another row of Pascal's Triangle (Y/N)?
```

|Type input and press Enter to send to program

Line 1:



BlueJ: Terminal Window - Pascal's Triangle

```
How many lines of Pascal's Triangle would you like to solve? 1
1
Would you like to solve for another row of Pascal's Triangle (Y/N)?
```

|Type input and press Enter to send to program

Line 2:

BlueJ: Terminal Window - Pascal's Triangle

```
How many lines of Pascal's Triangle would you like to solve? 2
1
1      1

Would you like to solve for another row of Pascal's Triangle (Y/N)?
Type input and press Enter to send to program
```

Line 4:

BlueJ: Terminal Window - Pascal's Triangle

```
How many lines of Pascal's Triangle would you like to solve? 4
1
1      1
1      2      1
1      3      3      1

Would you like to solve for another row of Pascal's Triangle (Y/N)?
Type input and press Enter to send to program
```

Line 10:

BlueJ: Terminal Window - Pascal's Triangle

```
How many lines of Pascal's Triangle would you like to solve? 10
1
1      1
1      2      1
1      3      3      1
1      4      6      4      1
1      5      10     10     5      1
1      6      15     20     15     6      1
1      7      21     35     35     21     7      1
1      8      28     56     70     56     28     8      1
1      9      36     84     126    126    84     36     9      1

Would you like to solve for another row of Pascal's Triangle (Y/N)?
Type input and press Enter to send to program
```