

Chapter 16: Programming

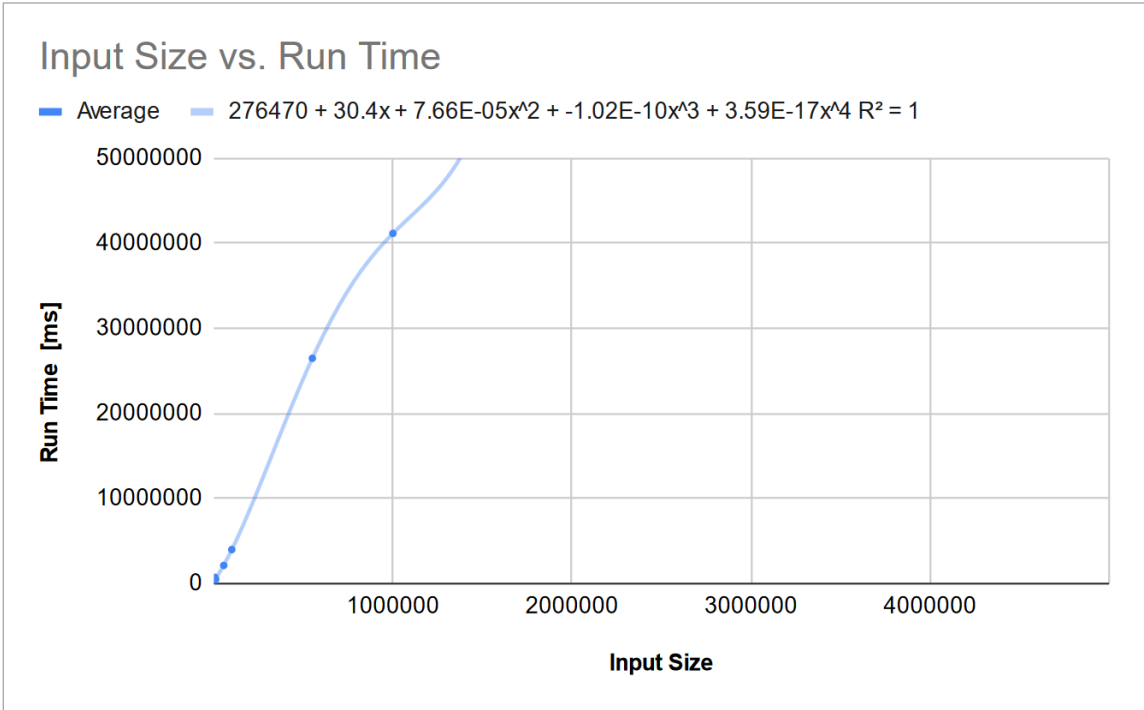
16.2 ArrayStack and ArrayQueue Constructors

```
23  /**
24   * Construct the stack.
25   */
26  public ArrayStack( )
27  {
28      theArray = (AnyType []) new Object[ DEFAULT_CAPACITY ];
29
30      topOfStack = -1;
31  }
32
33  public ArrayStack( int capacity )
34  {
35      theArray = (AnyType []) new Object[capacity];
36
37      topOfStack = -1;
38  }
```

```
22  /**
23   * Construct the queue.
24   */
25  public ArrayQueue( )
26  {
27      theArray = (AnyType []) new Object[ DEFAULT_CAPACITY ];
28      makeEmpty( );
29  }
30  public ArrayQueue( int _size )
31  {
32      theArray = (AnyType []) new Object[ _size ];
33      makeEmpty( );
34  }
```

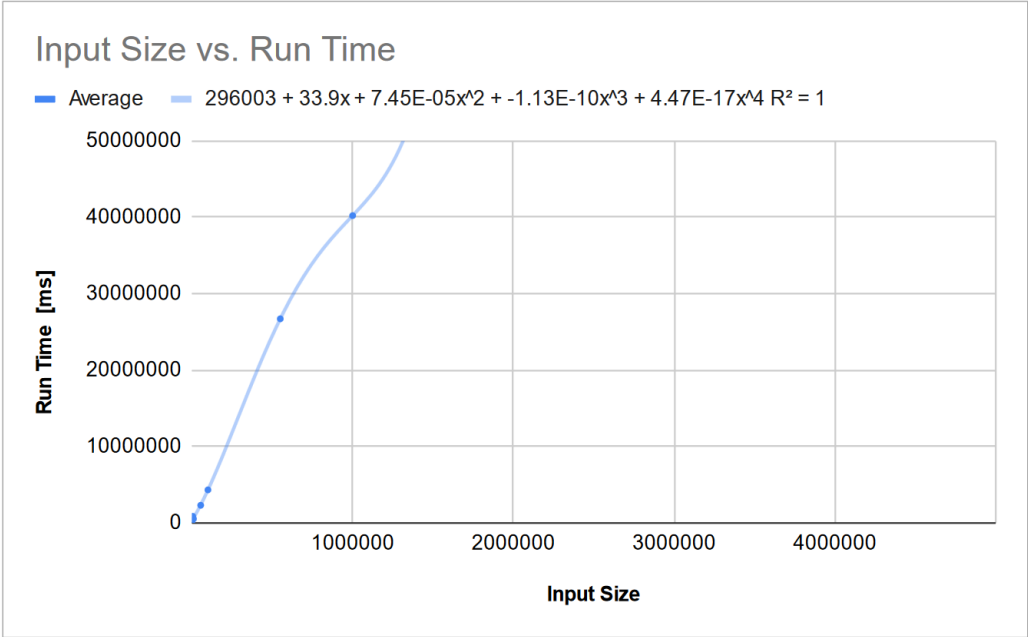
16.3 Running times

ArrayStack

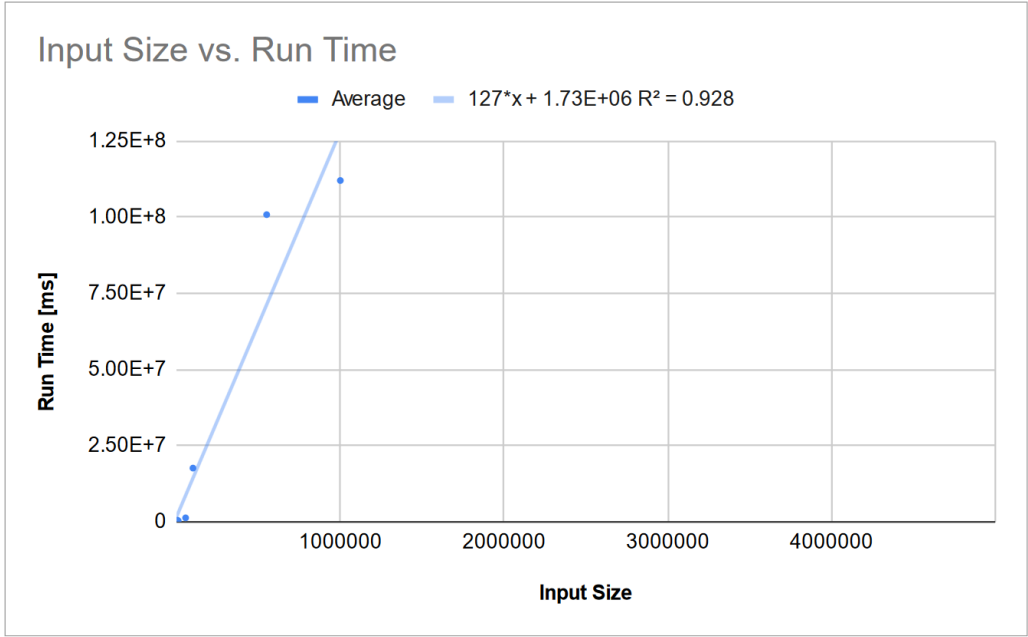


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ArrayQueue



ListStack



ListQueue

