A very powerful String class. StringBufferADT is a model for StringBuffer class.
(mutable String class which is built as an ArrayList of chars)

The StringBuffer ADT

```
StringBuffer stringBuf = new StringBuffer();

stringBuf.append("abc");
        // stringBuf now contains "abc"
stringBuf.append(123);
        // stringBuf now contains "abc123"

stringBuf = new StringBuffer("TH8");
stringBuf.insert(2, "X");
        // stringBuf now contains "THX8"
stringBuf.insert(3, 113);
        // stringBuf now contains "THX1138"
char ch = stringBuf.charAt(2); // ch is 'X'
stringBuf.setCharAt(2, 'a');
      // stringBuf now contains "THa1138"
```

stinky effect

System.out("ab" + 2 + 2);
Output : ab22

pseudo random

loop for project

The `BitSet` ADT

- A bit set requires much less memory than an array or vector of `boolean` values, because each element is stored as a single bit. A bit set will automatically increase its size as needed. 76 (so can use 1-75)

```
BitSet multiplesOf2 = new BitSet(16);
```

- The `set` method changes a single bit to `true`:

```
multiplesOf2.set(2);
```

- The `clear` method "clears" a bit by setting it to `false`:

```
multiplesOf2.clear(2);
```

- The `get` method returns a boolean value regarding whether a specific bit position is set:

```
if (multiplesOf2.get(2)) ...
```