# PA6 – Programming Workflow Template

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### First 30 Minutes

Screenshot or copy/paste of program:

```
class PairSelect {
    int[] getAs(Pair[] p){
    int[] aResult = new int[p.length];
    for(int i = 0;i<p.length;i++){
        aResult[i] = p[i].a;
    }
    return aResult;
}

class Pair{
    int a;
    int b;
Pair(int a, int b){
        this.a = a;
        this.b = b;
}</pre>
```

Screenshot or copy/paste of ./run output (if any):

I have completed the code but I haven't writen tests yet, I plan to write them in the third 30 minutes section.

# Thoughts on your progress:

I felt this very short and completed it in around 20 minutes total. I spent around 5 minutes at the start deciding which tasks I should do. I was distracted by a call for about 5minutes. The task wasn't tedious and didn't require a lot of thinking. I hope the tests run fine as there aren't any errors as of now.

### Distractions:

I was distracted by a call for about 5minutes.

### Second 30 minutes:

Screenshot or copy/paste of program:

```
class LongStrings {
    String[] longStrings(String[] s, int n){
        int count = 0;
        int count1 = 0;
        for(int i = 0;i<s.length;i++){
            if(s[i].length() >= n){
                count += 1;
            }
        }
        String[] longs = new String[count];
        for(int j = 0;j<s.length;j++){
            if(s[j].length() >= n){
                longs[count1] = s[j];
                count1+=1;
            }
        }
        return longs;
    }
}
```

Screenshot or copy/paste of ./run output (if any):

I have completed the code but I haven't written tests yet, I plan to write them in the third 30 minutes section.

Thoughts on your progress:

I feel I managed my time well. I spent around 5 minutes thinking about the whole code and constructing it in my head. I completed it with 4 minutes to spare. I didn't find this challenging and don't think it must have errors when run.

Distractions:

I had no distractions.

### Final 30 minutes:

Screenshot or copy/paste of program:

#### PairSelect code with tests:

```
import tester.*;
class PairSelect {
    int[] getAs(Pair[] p){
    int[] aResult = new int[p.length];
    for(int i = 0; i < p.length; i++){
        aResult[i] = p[i].a;
    return aResult;
boolean testEach(Tester t){
     return t.checkExpect(getAs(new Pair[] {new Pair(2,3),new Pair(3,4),new
Pair(5,6)}),new int[] {2,3,5}) &&
      t.checkExpect(getAs(new Pair[] {}),new int[] {}) &&
      t.checkExpect(getAs(new Pair[] {new Pair(0, 0)}), new int[] {0}) &&
      t.checkExpect(getAs(new Pair[] {new Pair(-2,3),new Pair(3,-4),new Pair(-
5,6)}),new int[] {-2,3,-5}) &&
      t.checkExpect(getAs(new Pair[] {new Pair(0, 0), new Pair(0,0)}), new int[]
{0,0});
class Pair{
int a;
int b;
Pair(int a, int b){
    this.a = a;
    this.b = b;
```

### LongerStrings code with tests

```
import tester.*;
class LongStrings {
    String[] longStrings(String[] s, int n){
        int count = 0;
        int count1 = 0;
        for(int i = 0;i<s.length;i++){</pre>
            if(s[i].length() >= n){
                count += 1;
        String[] longs = new String[count];
            for(int j = 0;j<s.length;j++){</pre>
                if(s[j].length() >= n){
                    longs[count1] = s[j];
                    count1+=1;
            }
    return longs;
    boolean testEach(Tester t){
        return t.checkExpect(longStrings(new String[]
{"a","ab","abc","abcd","abcde"},1),new String[] {"a","ab","abc","abcd","abcde"}) &&
         t.checkExpect(longStrings(new String[] {"a","ab","abc","abcd","abcde"},2),new
String[] {"ab","abc","abcd","abcde"}) &&
         t.checkExpect(longStrings(new String[] {"a","ab","abc","abcd","abcde"},3),new
String[] {"abc","abcd","abcde"}) &&
         t.checkExpect(longStrings(new String[] {"a","ab","abc","abcd","abcde"},4),new
String[] {"abcd","abcde"}) &&
         t.checkExpect(longStrings(new String[] {"a","ab","abc","abcd","abcde"},5),new
String[] {"abcde"}) &&
         t.checkExpect(longStrings(new String[] {"a","ab","abc","abcd","abcde"},6),new
String[] {}) &&
         t.checkExpect(longStrings(new String[] {"a","ab","abc","abcd","abcde"},0),new
String[] {"a","ab","abc","abcd","abcde"}) &&
         t.checkExpect(longStrings(new String[] {},3),new String[] {});
    }
```

Screenshot or copy/paste of ./run output (if any):

#### PairSelect run output:

```
sidha@MacBook-Pro-92 cse11-pa6-starter-main % ./run PairSelect Tester Library v.3.0
```

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Tests defined in the class: PairSelect: \_\_\_\_\_ PairSelect: ----new PairSelect:1() -----Ran 5 tests. All tests passed. --- END OF TEST RESULTS ---WARNING: A terminally deprecated method in java.lang.System has been called WARNING: System::setSecurityManager has been called by tester.Main (file:/Users/sidha/Documents/java/csell-pa6-starter-main/tester.jar) WARNING: Please consider reporting this to the maintainers of tester. Main WARNING: System::setSecurityManager will be removed in a future release sidha@MacBook-Pro-92 cse11-pa6-starter-main % **LongerStrings run output:** sidha@MacBook-Pro-92 cse11-pa6-starter-main % ./run LongStrings Tester Library v.3.0 \_\_\_\_\_ Tests defined in the class: LongStrings: LongStrings: new LongStrings:1() \_\_\_\_\_ Ran 8 tests. All tests passed. --- END OF TEST RESULTS ---WARNING: A terminally deprecated method in java.lang. System has been called WARNING: System::setSecurityManager has been called by tester.Main (file:/Users/sidha/Documents/java/csell-pa6-starter-main/tester.jar) WARNING: Please consider reporting this to the maintainers of tester. Main WARNING: System::setSecurityManager will be removed in a future release

sidha@MacBook-Pro-92 cse11-pa6-starter-main %

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# Thoughts on your progress:

In this part, I just put tests on both my codes.

Because both my codes were correct in the first place, it didn't take any time to type and run the codes.

It took me around 15 minutes.

Distractions:

No distractions

# **Overall Reflection**

Overall, I found this pa very easy as it didn't take a lot of effort/ time to complete. Later I plan on doing all the other tasks of this pa for more practice.