Hello Again, Now We will develope the program 7.

This is an update from the program 3, but my program 3 is in Swift, so I will have to do almost all again in Java.

So it requires to make the PROBE calculations:

* Calculate r(x,y)
* S(r)
* β0(x,y)
* β1(x,y)
* yk = β0 + β1xk
* 70% prediction interval

We will have this input:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Program Number** | **Estimated Proxy Size** | **Plan Added and Modified Size** | **Actual Added and Modified Size** | **Actual Development Hours** |
| 1 | 130 | 163 | 186 | 15.0 |
| 2 | 650 | 765 | 699 | 69.9 |
| 3 | 99 | 141 | 132 | 6.5 |
| 4 | 150 | 166 | 272 | 22.4 |
| 5 | 128 | 137 | 291 | 28.4 |
| 6 | 302 | 355 | 331 | 65.9 |
| 7 | 95 | 136 | 199 | 19.4 |
| 8 | 945 | 1206 | 1890 | 198.7 |
| 9 | 368 | 433 | 788 | 38.8 |
| 10 | 961 | 1130 | 1601 | 138.2 |

With a proxy size of **386 LOC**

Will be **4** test cases:

1. Size PROBE for 10 programs and the proxy defined (estimated proxy size && actual added and modified).
2. Time PROBE for 10 programs and the proxy defined (estimated proxy size && actual development hours).
3. Size PROBE for my programs(3-6) and the proxy of this program 7 (estimated proxy size && actual added and modified). My estimated proxy size will be the one of this program.
4. Time PROBE for my programs(3-6) and the proxy of this program 7(estimated proxy size && actual development hours). My estimated proxy size will be the one of this program.

Because of the last 2 test cases I will need to make an input for:

* Estimated proxy sizes from programs 3 - 6.
* Actual added and modified from programs 3 - 6.
* Actual development time from programs 3 - 6.
* Estimated proxy size for program 7.

After all this I wil output a table for the 2 categories of test cases:

1. Test case 1 & 2.
2. Test case 3 & 4.