Sequence Diagram Homework

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This homework assignment and can be done individually, or in groups of 2. Provide your name(s):

|  |  |  |  |
| --- | --- | --- | --- |
| 1. |  | 2. |  |

For this assignment, you will draw 2 sequences diagrams by hand using the provided template, or using StarUML.

# Answer – Problem 1

*Your answer for problem one goes here. It should display on a new page. DELETE this comment.*

# Answer – Problem 2

*Your answer for problem one goes here. It should display on a new page. DELETE this comment.*

# Problem 1

Draw a complete sequence diagram for the situation where *main* in the *A* class is called.

|  |  |
| --- | --- |
| public class A {  public static void main(String[] args) {  B b = new B();  b.launch();  } }  public class C {  public C() {  setup();  }    public void setup() {  System.out.println("C setup");  } } | public class B {  C c;    public B() {  c = new C();   }  public void launch() {  System.out.println("B being launched");  init();  }    private void init() {  System.out.println("B being init'd");  } } |

# Problem 2

Draw a complete sequence diagram for the situation where *m1* in the C class is called.

|  |  |
| --- | --- |
| **public class A {**  **public static void main(String[] args) {**  **C c = new C();**  **c.m1();**  **}**  **}**  **class B {**  **C c;**  **int z;**    **public B(){}**  **}** | **class D {**    **public D() { go(); }**  **public void init() { go(); }**  **public void go() { }**    **public void calc(C c) {**  **int z = c.getVal();**  **}**  **}**  **class E {**  **public void setSpeed() {}**  **public void execute() {}**  **public void reset() {}**  **}** |
| **class C {**  **ArrayList<D> dCol;**  **E e;**  **boolean isReady;**    **public C() {**  **System.out.println("create C");**    **isReady = Math.random() < 0.2 ? true : false;**  **dCol = new ArrayList<D>();**    **for( int i=0; i<9; i++ ) {**  **D d = new D();**  **dCol.add(d);**  **}**  **e = new E();**  **}**    **public void m1() {**  **System.out.println("m1()");**    **for( D d : dCol ) {**  **d.calc(this);**  **}**    **if ( isReady )**  **e.setSpeed();**  **else {**  **for( D d : dCol ) {**  **d.init();**  **}**  **e.reset();**  **}**  **e.execute();**  **}**    **public int getVal() {**  **return (int)Math.random();**  **}**  **}** | |

Appendix

1. Sequence Diagram Template

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