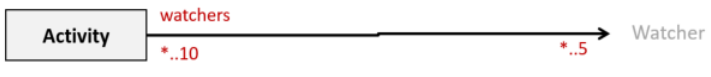
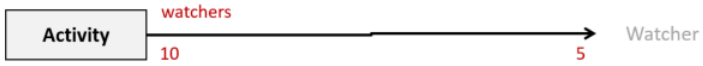
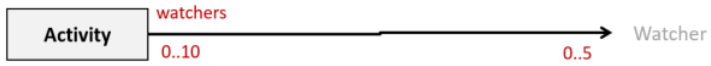
○ [p2.01] UML: CD: code to CD

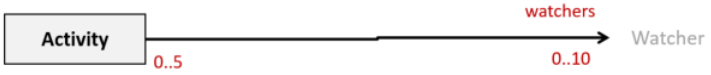
? Which of these partial diagrams is the best match for the code?

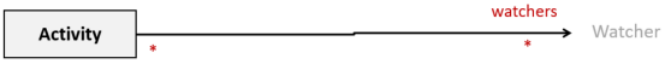
Follow-up question: What's the UML name given to the word 'watchers' in the diagram?

○ 

○ 

○ 

✓ 

○ 

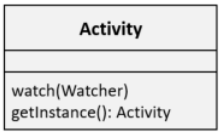
Answer to the follow-up question: association role

○ [p2.02] UML: CD: code to CD

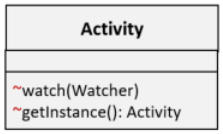
? Which of these partial diagrams is the best match for the code?

Follow-up question: None

○

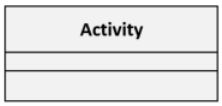


✓

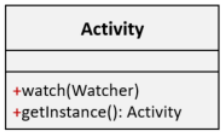


○

○



○



○ [p2.03] UML: CD: code to CD

? Assuming an activity keeps track of its sub activities, which of these partial diagrams is **not** compliant with the code?

Follow-up question: What's wrong with it?

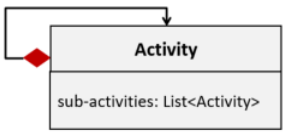
○

○

○

○

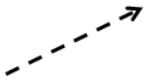
✓



Answer to the follow-up question: The association is also shown as an attribute. Only one or the other should be shown. (examiner note: All the other diagrams omit optional elements.)

○ [p2.04] UML: CD: code to CD

? There should be a dashed arrow from ___ to ___



Follow-up question: What is the reason for that arrow?

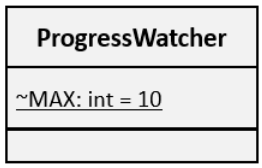
- ○ from Activity to Watcher
- ○ from ProgressWatcher to Watcher
- ○ from ProgressWatcher to Activity
- ○ from UiWidget to ProgressWatcher
- ✓ from Activity to ProgressWatcher

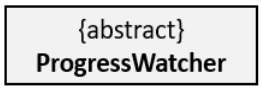
Answer to the follow-up question: The dependency due to accessing the constant MAX

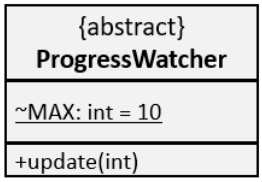
[p2.05] UML: CD: code to CD

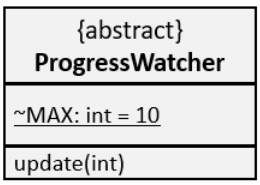
? Which of these is the best match for the code?

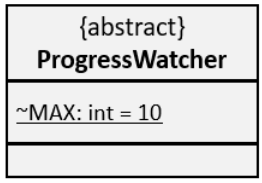
Follow-up question: None







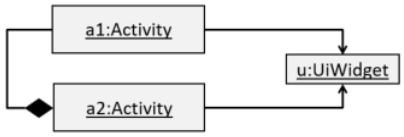


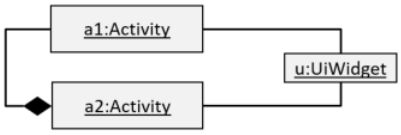


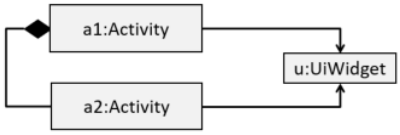
[p2.06] UML: CD: code to CD

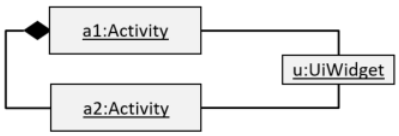
? Which of these is the best match for the code, for part (b)?

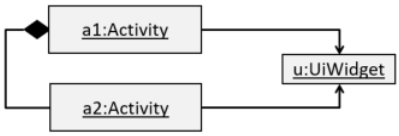
Follow-up question: None









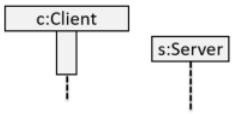


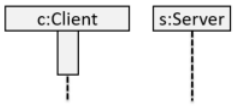
○ [p2.07] UML: CD: code to SD

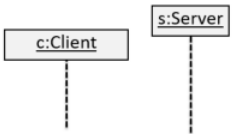
? Which of these partial diagrams is the best match for the code?

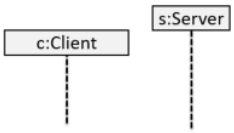
Follow-up question: None.

○ 

○ 

○ 

○ 

✓ 

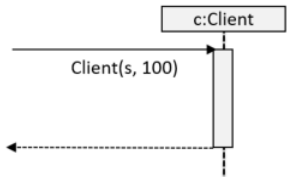
Answer to the follow-up question: Examiner note: As s exists before c is created, s lifeline should start from a higher point compared to the c lifeline.

○ [p2.08] UML: CD: code to SD

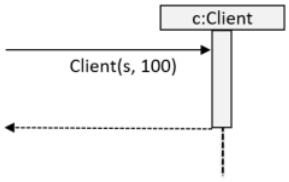
? Which of these partial diagrams is the best match for the code?

Follow-up question: None.

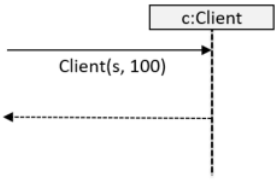
○



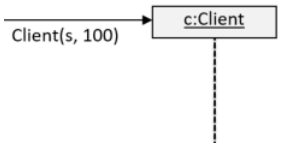
○



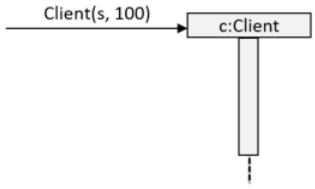
○



○



✓

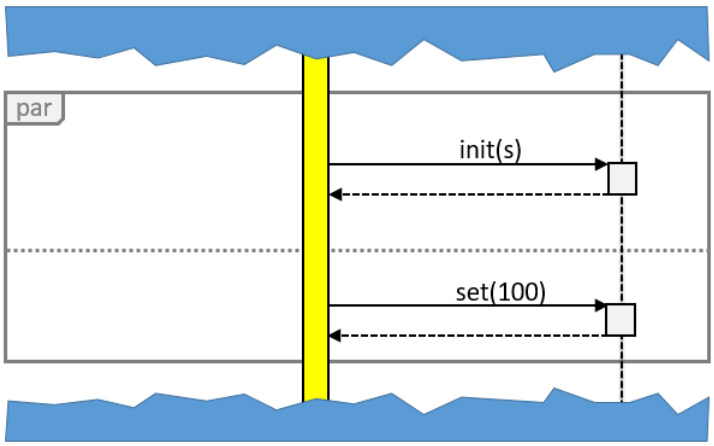


○ [p2.09] UML: CD: code to SD

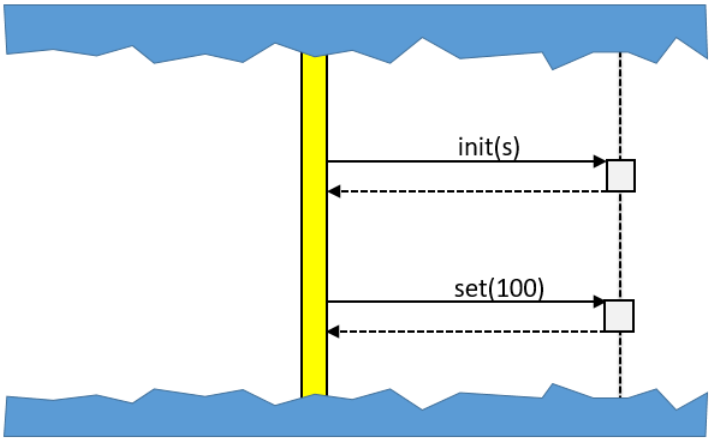
? Assuming the yellow bar on the left is the constructor of the `Client` class, which of these partial diagrams is the best match for the code?

Follow-up question: None.

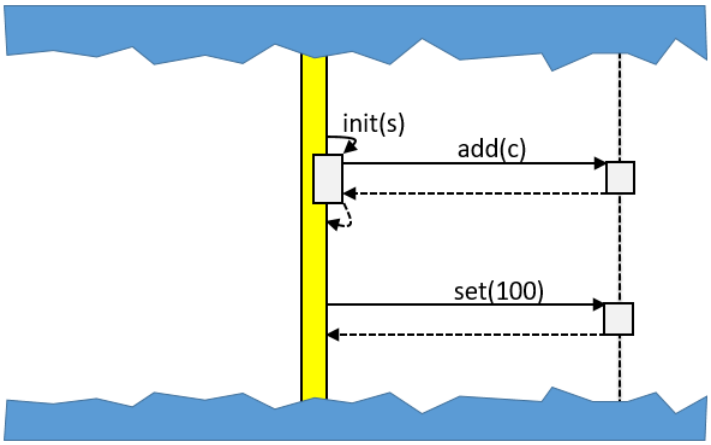
○

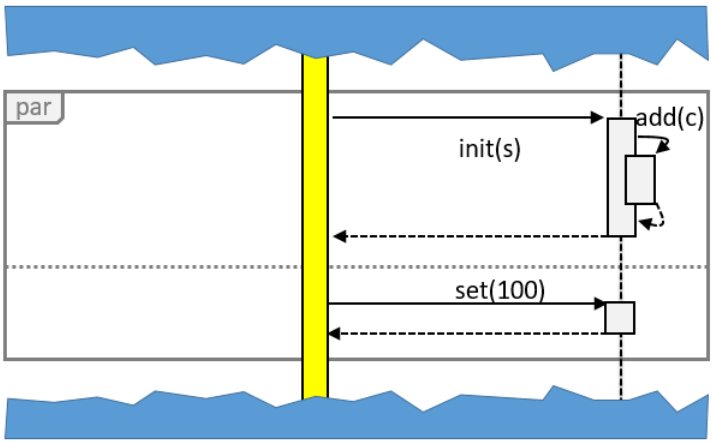


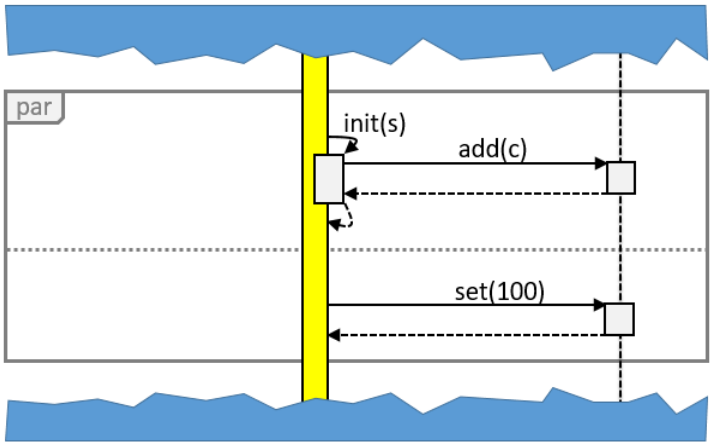
○



○




par
add(c)
init(s)
set(100)


par
init(s)
add(c)
set(100)

○ [p2.10] PM: statements about rcs

? Which statement is **incorrect**?

Follow-up question: Why is it incorrect?

○ *Defensive programming* can result in slower code.

○ When developing a software to compete with Facebook, an iterative approach is more suitable than a sequential approach.

○ *Equivalence partitions* cannot give a *Neumann-complete* test suite.

○ More test cases is not necessarily better.

✓ *Path coverage* is easier to achieve than *statement coverage*.

Answer to the follow-up question: doubt: Neumann-complete is not taught in the module? (Examiner note: this question has a deliberate error, to remind you that you should write down your doubts/queries/assumptions along with your answer to the follow-up question.)

○ [p2.11] testing: test case design: boundary values

? Which value is **least** suitable as a test input for the following Java method? Assume `5` is used as a test case already.

```
/**
 * Returns true if the length could be a length of a month (in days)
 */

boolean isValidMonthSize(int length)
```

Follow-up question: Why?

○ 27

○ 28

✓ 26

○ 31

○ 32

Answer to the follow-up question: 26 is a non boundary value but the question says 5 (also a non-boundary value from the same partition) is already being used as a test case. (examiner note: the partitions are [-MAX..27][28..31][32..MAX])