# Software Engineering - BMEVIMIAB04 2023/24/1



Started on Tuesday, 19 December 2023, 2:12 PM Completed on Tuesday, 19 December 2023, 3:07 PM Time taken 54 mins 58 secs Grade 25.55 out of 40.00 (63.88%) **You have reached the minimum required points.** 

Question 1 Not answered Not graded F Flag question

Below is the student exam sheet. If the information contained therein is not accurate, please inform the exam supervisor

When the exam supervisor verifies your identity, please show the examination sheet to them!

Last name: Mean

First name: Diamand

**Neptun:** KSG25Z

**Moodle ID:** 39388

Question 2 Mark 0.00 out of F Flag question

Which statement(s) is/are true about the Kanban method? Choose all true statements.

There can be more than one correct answer. Points are awarded only if all correct answers are marked!

- $\overline{\mathbb{M}}$  Its disadvantage is that it can only display one project at a time.
- Its disadvantage is that it requires manual intervention by the Scrum master to keep it up-to-date.
- $\overline{\mathbf{W}}$  It provides an overview of the status of each task according to the elements of the lifecycle.
- It cannot be used in Scrum-based development projects because the methodologies require different steps

It provides an overview of the status of each task according to the elements of the lifecycle.

Question 3 Mark 1.00 out of ₹ Flag question Which of the following statements are true about centralised version control systems? Choose all true statements

There can be more than one correct answer. Points are awarded only if all correct answers are marked!

- They must always manage multiple parallel branches.
- Any local modification (from a user's point of view) is fast, as it does not need to communicate with other actors.
- Normally, each user has the full repository, which contains all files with all versions and all metadata.
- ▼ They may use locking to avoid conflicts.

They may use locking to avoid conflicts.

Mark 0.00 out of ♥ Flag question

We have provided 4 statements related to the quality of the source code. Choose all true statements!

There can be more than one correct answer. Points are awarded only if all correct answers are marked!

- ☐ Checklists are not necessary to be used for manual code review if source code version control is done with the Git tool.
- $\blacksquare$  Manual code review should be done after running the automatic tools
- $\overline{\mbox{\sc w}}$  . It may be useful to check our source code with several static checkers.

There are tools that can automatically check compliance with coding guidelines (e.g. MISRA C).,

It may be useful to check our source code with several static checkers.,

Manual code review should be done after running the automatic tools

Question 5 Mark -0.25 out ♥ Flag question

We have provided 4 statements related to the behaviour modelled by the below state machine. Choose the true one

A correct answer is worth +1, an incorrect answer -0.25 and a blank answer 0 points.

- The stop behaviour is always triggered by the exitProcess event.
- lt is possible that the tumOn event will cause the initialize behaviour to be executed but the system is put in the Idle state.
- The initialize event always puts the system in the Working state.
- The turnOff event triggers the stop event

Your answer is incorrect

It is possible that the tumOn event will cause the initialize behaviour to be executed but the system is put in the Idle state

Question 6 Mark 1.00 out of 1.00  Which of the following ones are typical software development lifecycle tasks?

There can be more than one correct answer. Points are awarded only if all correct answers are marked!

- ₩ Test
- Code

	Your answer is correct.	
	The correct answers are:	
	Plan,	
	Code,	
	Test, Release	
	release	
Question <b>7</b> Incorrect Mark 0.00 out of 1.00  *Flag question	Which of the following ones are part of the design phase of softw There can be more than one correct answer. Points are awarded only Documenting decisions Transforming the requirements into use cases and processes Collecting requirements Evaluation of alternatives	
	Your answer is incorrect.	
	The correct answers are: Evaluation of alternatives,	
	Documenting decisions,	
	Transforming the requirements into use cases and processes	
Question 8	Which activity is specific to which (requirement) checking method	? Match the corresponding ones. It is possible that some of the elements do not have a counterpart.
Partially correct	A correct answer is worth +0.2 points.	
Mark 0.80 out of 1.00		
₹ Flag question	Manually reading and analysing documents, executed by humans	Review
	Checking feasibility	Prototypes
	Using structured check lists	Review
	Connecting requirements, examples, and tests	User story
	Better understanding of requirements through examples	Specification by example \$
	Your answer is partially correct.  You have correctly selected 4.  The correct answer is:  Manually reading and analysing documents, executed by humans  Checking feasibility → Prototypes,  Using structured check lists → Review,  Connecting requirements, examples, and tests → Specification by  Better understanding of requirements through examples → Specifi	example,
Question <b>9</b>	We have a selected a second control of the s	
Incorrect	We have provided 4 statements related to the syntax and semanti There can be more than one correct answer. Points are awarded only	
Mark 0.00 out of 1.00		
₹ Flag question	The abstract syntax defines the possible element and relation	
	<ul> <li>         ™ The semantics of the model mainly focuses on the meaning of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the concrete syntax may contain a rule like "the model may of the contain a rule like "the contain a rule like "th</li></ul>	
	■ The precise definition of the semantics is typically not more of	
	Your answer is incorrect.	
	The correct answers are:	
	The abstract syntax defines the possible element and relation type	
	The semantics of the model mainly focuses on the meaning of the	: maaei.
Question 10 Incorrect	Which statements are true for software?	
Mark 0.00 out of	There can be more than one correct answer. Points are awarded only	r if all correct answers are marked!
1.00 P Flag question	Generally, during the development, it is easier to repair a fau	It in a software component than one in a hardware component.
	It is easy to "produce" a new instance of a software.	
	<ul> <li>In case of a software component, we have to expect the sam</li> <li>The software does not have to deal with any constraints of the</li> </ul>	
	The software does not have to dear with any constraints of the	ie priystea wortu.
	Válasza helytelen.	
	The correct answers are:	
	It is easy to "produce" a new instance of a software.,	
	Generally, during the development, it is easier to repair a fault in a	software component than one in a hardware component.
Question 11	We want to model that the abstract class Animal is the generaliza	tion of the class Cat.
Question 11 Correct Mark 1.00 out of	Complete the model by pulling the right relation and the right cla	
Correct Mark 1.00 out of 1.00		ss name to the right position.
Correct Mark 1.00 out of	Complete the model by pulling the right relation and the right cla	
Correct Mark 1.00 out of 1.00	Complete the model by pulling the right relation and the right cla	ss name to the right position.
Correct Mark 1.00 out of 1.00	Complete the model by pulling the right relation and the right cla	ss name to the right position.
Correct Mark 1.00 out of 1.00	Complete the model by pulling the right relation and the right cla	ss name to the right position.
Correct Mark 1.00 out of 1.00	Complete the model by pulling the right relation and the right cla	ss name to the right position.  Background Animal or dragging markers onto
Correct Mark 1.00 out of 1.00	Complete the model by pulling the right relation and the right cla	ss name to the right position.  Background Animal or dragging markers onto
Correct Mark 1.00 out of 1.00	Complete the model by pulling the right relation and the right cla	ss name to the right position.  Background Animal or dragging markers onto
Correct Mark 1.00 out of 1.00	Complete the model by pulling the right relation and the right cla	ss name to the right position.  Background Animal or dragging markers onto
Correct Mark 1.00 out of 1.00	Complete the model by pulling the right relation and the right cla	ss name to the right position.  Background Animal or dragging markers onto
Correct Mark 1.00 out of 1.00	Complete the model by pulling the right relation and the right cla	Background Animal or dragging markers onto
Correct Mark 1.00 out of 1.00	Complete the model by pulling the right relation and the right cla	Background Animal or dragging markers onto

☑ Release

Question 12 At which level of the review are the following participants and moderators typical? Correct A correct answer is worth +0.25 points. Mark 1.00 out of Involving external experts, led by a specially trained moderator | Inspection | Involving external experts, led by a team member Technical review ❖
Teammates, led by the author Walk through ❖ Teammates, possibly the team leader, without a moderator Informal review \$ Involving external experts, led by a specially trained moderator → Inspection, Involving external experts, led by a team member  $\rightarrow$  Technical review, Teammates, led by the author  $\rightarrow$  Walk through, Teammates, possibly the team leader, without a moderator → Informal review Question 13 If there is an already existing code base, which ones of the following operations are considered as "refactor" operations? There can be more than one correct answer. Points are awarded only if all correct answers are marked! Mark 0.00 out of **▼** Extracting some instructions from the body of an existing method into a new one. ₹ Flag question Extending the functionality of a method. Renaming a method. Renaming a variable. Your answer is incorrect. Extracting some instructions from the body of an existing method into a new one., Renaming a variable., Renaming a method. Question 14 Which version control-related concept can be defined as: a representation of related changes and the meta-data associated to them? Write one single word as an answer Mark 1.00 out of 1.00 Answer: commit ▼ Flag question The correct answer is: Commit Question 15 Which statement(s) is/are true about scheduling in a development project following the Scrum method? Choose all true statements There can be more than one correct answer. Points are awarded only if all correct answers are marked! Mark 0.00 out of 1.00 The results of a Sprint do not need to be reviewed in a separate meeting, as they are accurately tracked during the Daily standup meetings. ₹ Flag question The purpose of the Sprint retrospective meeting is to plan the next week's work. During Sprint planning, the tasks for the next period are selected from the items in the Product backlog list.  $\blacksquare$  The purpose of the *Daily standup* meeting is to plan the next day's work and identify potential obstacles The correct answers are The purpose of the Daily standup meeting is to plan the next day's work and identify potential obstacles., During Sprint planning, the tasks for the next period are selected from the items in the Product backlog list. Question 16 Choose all true statements. There can be more than one correct answer. Points are awarded only if all correct answers are marked! Mark 1.00 out of 1.00 ■ Black box testing is a specification-based technique. ▼ Flag question ■ SUT is the abbreviation of Simple Unit Test.  $\overline{\mbox{\sc w}}$  We choose one test input from each equivalence class.  $\hfill \square$  We usually do not check the so called main path (happy path). Your answer is correct. The correct answers are: Black box testing is a specification-based technique., We choose one test input from each equivalence class. Question 17 When executing a test case, one of the asserts in it evaluates to false. What will be the result of the test? A correct answer is worth +1, an incorrect answer -0.25 and a blank answer 0 points Mark 1.00 out of 1.00 6 fail ₹ Flag question inconclusive error pass Válasza helyes. The correct answer is: fail Ouestion 18 We have provided 4 statements related to structure-based test design. Choose **all true** statements! There can be more than one correct answer. Points are awarded only if all correct answers are marked! Mark 0.00 out of A decision may have more than two possible outcomes. ♥ Flag question  $\overline{M}$  A possible example of a *statement* is to assign a value to a variable (e.g. int x = 10;). The 100% statement coverage implies the 100% decision coverage. ■ If the statement covergae is 100%, this also guarantees the coverage of all non-empty branches. Your answer is incorrect. The correct answers are: If the statement covergae is 100%, this also guarantees the coverage of all non-empty branches.,

A possible example of a *statement* is to assign a value to a variable (e.g. int x = 10;). Question 19 Which of the following ones are called functional requirements? Correct There can be more than one correct answer. Points are awarded only if all correct answers are marked! Mark 1.00 out of 1.00 Requirements for the ergonomics of the user interface F Flag question Requirements for the number of requests that can be processed per second  $\hfill \blacksquare$  Requirements for the expected failure frequency of the system Requirements for which operations the user can perform The correct answer is: Requirements for which operations the user can perform Question 20 By software we only mean the source code. Correct A correct answer is worth +1, an incorrect answer -0.5 and a blank answer 0 points. Mark 1.00 out of 1.00 True ₹ Flag question False Válasza helyes. The correct answer is: Ouestion 21 Pull the missing words to the right places in the following statements. A correct answer is worth +0.25 points. Mark 0.00 out of 1.00 blocks the initiating party. The asynchronous message reception causality sending synchronous call orderedness Your answer is incorrect. The correct answer is: Pull the missing words to the right places in the following statements A correct answer is worth +0.25 points. The [synchronous call] blocks the initiating party. The [reception] of a message happens always after its [sending] - this is called [causality] . Question 22 We want to model that a wall may contain windows, and there is a whole-part relation between them, i.e. one window can only be contained by one wall, but not more Choose the right relation and pull it between the classes! Mark 0.00 out of 1.00 A correct answer is worth +1 point. Background image for dragging markers onto ▼ Flag question Your answer is incorrect. Question 23 Which of the following statements are true about distributed version control systems? Choose all true statements.  ${\it There \ can \ be \ more \ than \ one \ correct \ answer. \ Points \ are \ awarded \ only \ if \ all \ correct \ answers \ are \ marked!}$ Mark 1.00 out of 1.00 ■ They must always be able to manage multiple parallel branches.  $\hfill\Box$  They usually use locking to avoid conflicts.  $\overline{\mathbf{W}}$  Normally, each user has the full repository, which contains all files with all versions and all metadata. Many local modification (from a user's point of view) is fast, as it does not need to communicate with other actors. Your answer is correct. Normally, each user has the full repository, which contains all files with all versions and all metadata., Any local modification (from a user's point of view) is fast, as it does not need to communicate with other actors., They must always be able to manage multiple parallel branches. Ouestion 24 Which statement(s) is/are true about the person playing the role of the *Product Owner* in an agile software development project? Choose all true statements. There can be more than one correct answer. Points are awarded only if all correct answers are marked! Mark 1.00 out of 1.00 ■ He or she is responsible for the internal meetings that are part of the Scrum process. ♥ Flag question ■ He or she maintains the Product Backlog list.  $\overline{\mbox{\ensuremath{\mbox{\sc W}}}}$  It is primarily their responsibility is to communicate with all stakeholders. He or she prepares an accurate schedule of the project members' tasks. Your answer is correct. The correct answers are: It is primarily their responsibility is to communicate with all stakeholders., He or she maintains the *Product Backlog* list. Question 25 Which statement(s) is/are true for software life cycle models? Choose all true statements. There can be more than one correct answer. Points are awarded only if all correct answers are marked! Mark 0.00 out of

1.00 № Flag question

- A typical goal in agile software development is the early and continuous delivery of software.
- In software development projects following the waterfall model, the individual phases cannot be checked because the software to be delivered is only completed in the last step.
- The waterfall model is useful for complex, longer projects because the tasks are well separated from each other.
- In the V-model, the traceability of the development is ensured by the frequent release of the software.

Your answer is incorrect.

The correct answer is:

A typical goal in agile software development is the early and continuous delivery of software.

Question **26**Correct
Mark 1.00 out of 1.00

Which (exactly one) Git command must be issued to get your repository from its current state to the desired target state? Get your repository to the desired target state by issuing Git commands.

There are no sub-points for this task, the score is awarded only for the correct solution. If you have done something wrong, use the "Reset answer" button, or use the "undo" command to undo the last

Answer: (penalty regime: 0 %)

Belépés ide: Budapesti Műszaki és
Gazdaságtudományi Egyetem Villamosmérnöki és Informatikai Kar

Felhasználónév

Jelszó

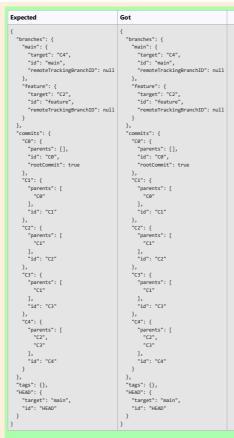
Belépés

Elfelejtette jelszavát?

Lépjen be itteni fiókjával:

Címtáras belépés (EdulD)

magyar (hu) 
Sütikre vonatkozó tájékoztatás



### Passed all tests!

► Show/hide question author's solution (Nodejs)

Correct

rks for this submission: 1.00/1.00

Question 27
Correct
Mark 3.00 out of 3.00
F Flag question

Pete was working on two features at the same time (feature-a, feature-b). However, at the daily stand-up, it was decided that these two features were so similar that they should be developed together. Pete was given the task to integrate feature-b with feature-a, but in such a way that the version history remains linear.

 $\ensuremath{\mathsf{Get}}$  your repository to the desired target state by issuing  $\ensuremath{\mathsf{Git}}$  commands.

There are no sub-points for this task, the score is awarded only for the correct solution. If you have done something wrong, use the "Reset answer" button, or use the "undo" command to undo the last command.

Answer: (penalty regime: 0 %)

Reset answer





Question 28
Correct
Mark 4.00 out of 4.00

P Flag question

Alice and Bob are working together on the new feature (feature-a). Both Alice and Bob did their part, but Alice was the quicker one, she uploaded her changes to the remote repository first. Now Bob wants to share his work with the team.

Get your repository to the desired target state by issuing Git commands.

There are o sub-points for this task, the score is awarded only for the correct solution. If you have done something wrong, use the "Reset answer" button, or use the "undo" command to undo the last command.

Answer: (penalty regime: 0 %)

Belépés ide: Budapesti Műszaki és
Gazdaságtudományi Egyetem Villamosmérnöki és Informatikai Kar

Jelszó	
Belépés	
Elfelejtette jelszavát?	
Lépjen be itteni fiókjával:	
Címtáras belépés (EdulD)	
magyar (hu) 🗸 📗 Sütikre vonatkozó tájékoztatás	?

```
Expected
                                                                                                                    Got
                                                                                                                "branches": {
    "main": {
        "target": "c2",
        "id": "main",
        "remoteTrackingBranchID": "o/main"

"branches": {
  "main": {
  "target": "C2",
  "id": "main",
  "remoteTrackingBranchID": "o/main"
}.
                                                                                                                         "Femure-a": {
  "target": "C6",
  "id": "feature-a",
  "remoteTrackingBranchID": "o/feature-a",
  "remoteTrackingBranchID": "o/feature-a",
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             "remoteTrackingBranchID": "o/main"
},
"feature-a": {
  "target": "C6",
  "id": "feature-a",
  "remoteTrackingBranchID": "o/feature-a"
         "Temo."; {
  "target": "C2",
  "id": "o/main";
  "remoteTrackingBranchID": null
  "- {
                                                                                                                         | "o/main": {
    "c/main": {
        "target": "C2",
        "id": "o/main",
        "remoteTrackingBranchID": null
             "remoteTrackingBranchID": null
},
"o/feature-a": {
  "target": "C6",
  "id": "o/feature-a",
  "remoteTrackingBranchID": null
                                                                                                                             "remoteTrackingBranchID": null
},
"o/feature-a": {
  "target": "C6",
  "id": "o/feature-a",
  "remoteTrackingBranchID": null
        }
},
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"C0": {
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    "id": "C0",
    "rootCommit": true
                                                                                                                        } } , "commits": {
  "c0": {
    "parents": [],
    "id": "c0",
    "rootCommit": true
                 "parents": [
"C0"
                                                                                                                                  "parents": [
"C0"
                 ],
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"id": "C1"
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    "C1"
                                                                                                                         },
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          },
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                                                                                                                         },
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                                                                                                                                ],
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                 ],
"id": "C5"
                                                                                                                         },
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    "C3"
             },
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                  "parents": [
                 ],
"id": "C4"
                                                                                                                                ],
"id": "C4"
         "C6": {
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    "C5"
                                                                                                                        "C6": {
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    "C5"
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  "id": "HEAD"
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},
"tags": {},
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   "id": "HEAD"
     "iv ...
),
"originTree": {
    "branches": {
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            "target": "C2",
            "id": "main": null
        }
}
                                                                                                                     "lv ...
);
"originTree": {
  "branches": {
  "main": {
    "target": "C2",
    "id": "main": null
  }
}.
                 "remote!rackingsranchID": null
},
"feature-a": {
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   "id": "feature-a",
   "remote!rackingsranchID": null
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  "id": "feature-a",
  "remoteTrackingBranchID": null
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    "id": "C0",
    "rootCommit": true
}
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},
"commits": {
  "c0": {
    "parents": [],
    "id": "C0",
    "rootCommit": true
}
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                                                                                                                                  },
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"C0"
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"C0"
                      ],
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                                                                                                                                     ],
"id": "C1"
              },
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    "C1"
                                                                                                                                "id": "C1"
},
"C2": {
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    "C1"
],
    "id": "C2"
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"id": "C2"
                  },
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                                                                                                                                  },
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"C1"
                                                                                                                                    "parents": [
    "C1"
],
    "id": "C3"
                      ],
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                                                                                                                              },
"C4": {
    "parents": [
    "C3"
               },
"C4": {
    "parents": [
    "C3"
                      ],
"id": "C4"
                                                                                                                                      ],
"id": "C4"
                  },
                                                                                                                                  }.
```

```
Expected
           "C5": {
    "parents": [
    "C3"
                                                                                          "C5": {
    "parents": [
    "C3"
             ],
"id": "C5"
                                                                                             ],
"id": "C5"
             "C6": {
                                                                                             "C6": {
             .6 .
"parents
"C4",
"C5"
                                                                                             "parents": [
"C4",
"C5"
                        ents": [
                                                                                           ],
"id": "C6"
             ],
"id": "C6"
                                                                                          }
                                                                                       }
},
"tags": {},
"HEAD": {
   "target": "feature-a",
   "id": "HEAD"
        "tags": {},
"tags": {},
"HEAD": {
    "target": "feature-a",
    "id": "HEAD"
Passed all tests!
```

► Show/hide question author's solution (Nodejs)

#### Correct

larks for this submission: 4.00/4.00

Question 29 Partially correct Mark 2.00 out of ₹ Flag question

#### Pattern-based Static Analysis

```
1 class A {
2 public int foo() {
      6
7 class B extends A {
8
9 String name = null;
    @Override
public int foo(int i) {
  int[] arr = {1, 2, 3};
  return arr[2];
}
23 }
24
25 int pow(int num, int exponent) {
26 if(exponent <= 0) return 1;
27 return num * pow(num, exponent - 1);
28 }
29 }
```

We have run a static checker on the Java source code shown above. The tool has reported several errors, decide which ones are real.

A correct answer is worth +1 point.

1) Does the following warning indicate a real error?

Line 18 - Potential ArrayIndexOutOfBoundsException

**Explanation**: Out-of-bounds indexing of an array happens when an element of the array is accessed, whose index lies outside of the valid range of the array.

The indicated warning is a false positive \$

### Correct answer, well done.

2) Does the following warning indicate a real error?

Line 12 - Potential NullPointerException
Explanation: Using a pointer whose value is Null.

The indicated warning is a true positive \$

## Correct answer, well done.

3) Does the following warning indicate a real error?

Explanation: With the @Override annotation the intention can be shown that the given method overrides a method of some of its parent classes. When this annotation is put on a method but it does not override any methods, the compilers and static analysis tools have to indicate an error.

The indicated warning is a false positive \$

### Incorrect answer.

4) Does the following warning indicate a real error?

Lines 25-28 - Infinite recursion

Explanation: If a recursive method does not contain any means to break the recursion and return, the execution continues until the stack overflows and the program crashes.

The indicated warning is a true negative \$

Incorrect answer.

```
A correct answer is: "false positive"
A correct answer is: "true positive"
A correct answer is: "true positive"
A correct answer is: "false positive"
```

Question 30 Correct Mark 4.00 out of F Flag question

The below code fragment is given:

```
lint retro(int x, double b, int d) {
2   if(x % 2 == 0) {
3   d = -d;
    2 if(x % z == 0,

3 d = -d;

4 }

5 if(b < 3.0) {

7 return d;

8 }

9 else {

10 return 2 * c

11 }
                 else {
    return 2 * d;
    }
```

We have run a test suite on this code fragment, and got the JaCoCo coverage report shown above. Reminder:  $\frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left($ 

- Green line: The instruction or decision is covered by the test suite.
   Yellow line: The decision is only partially covered by the test suite, there are decision outcomes that are uncovered.
   Red line: The instruction or decision is NOT covered by the test suite.

A correct answer is worth +2 points (per part).

a) Add a new test case to complete the existing test suite to reach 100% instruction coverage:

• b = 5	5
• d = 1	
Correct answer, well done.	
-	by the completed test suite (the original one completed with your test case in <b>part a)</b> )?  uld be given as a rational fraction; if the answer is $\frac{2}{6}$ ; write 2/6 into the field! Do not simplify the fraction.
ne answer to the following question sn	uta be given as a rational fraction; if the answer is $\frac{1}{6}$ , write 2/6 into the field! Do not simplify the fraction.
1/4	
Correct answer, well done.	
	ed in as follows: 8
Correct answer, well done.	
Correct answer, well done.	ped in as follows: 3.8
Correct answer, well done.  correct answer is 0, which can be type correct answer is 3.0, which can be tended and the correct answer is 3.0, which can be tended and the correct answer is 3.0, which can be tended and the correct answer is 3.0, which can be tended and the correct answer is 3.0, which can be tended and the correct answer is 3.0, which can be tended and the correct answer.	ped in as follows: 3.8 ed in as follows: 8