

Ans No : 1

The difference between generic and customize products is that generic products are built by developer to be sold in a market of users and the custom products are commissioned by individual users.

Software maintenance cost is derived from the changes made to software after it has been delivered to the end user.

Software does not wear out but it will become less useful as it gets older and there will always be issues within the software itself. Software engineering is concerned with effective software development.



②
Ans No : 2

Linear sequential model is also called classic life cycle or waterfall model.

It suggests a systematic, sequential approach to software development that begins at a systematic level and progresses through communication, planning, modeling, constructions, and deployment.

The V-model which is also known as verification and validation model testing with every phase. So, It is helpful for developers that they can test their work in every phase and they can fix the errors which ^{is} ~~was~~ the limitation of.



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Answer No: 4

Here, $n = 4$

$$\therefore \text{Test cases} = 4 \times 1 + 1 = 5$$

min	1
min ⁺	2
Max	100
Max -	99
Nominal	53

Test case design are shown be

Test case ID	Integer Value	Expected output
1	1	Not prime
2	2	prime
3	100	Not prime
4	99	Not prime
5	53	prime



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Q1

Test case using Robust testing:

$$\text{Test cases} = 5 \times 1 + 2 = 7$$

Min	1
Min ⁻	0
Min ⁺	2
Max	100
Max ⁻	99
Max ⁺	101
Nominal	53

Test Case ID	Integer Value	Expected output
1	1	Not prime
2	0	Invalid input
3	2	prime
4	100	Not prime
5	99	Not prime
6	101	Invalid input
7	53	prime



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⑤

Test case using worst case :

Since there is one variable; the number of test cases will be $5^n = 5^1 = 5$.

Therefore the number of test cases will be same as BVC.



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