ANUKARNA

ORGANISATION NAME: ABC CORPORATION

PLAYER’S DESIGNATION: Project Manager

PROJECT ASSIGNED: Website Development

ASSIGNED TEAM SIZE: 8

TOTAL BUDGET: Rs 2,000,000

PROJECT DEADLINE: 180 days

QUALITY EXPECTATIONS: Very High (measured in defects/kLOC)
Software Requirement Specification document has been prepared after meetings with managers, stakeholders and customers.

PHASE I COMPLETE
System Design specifying hardware and system requirements has been finalized.

PHASE II COMPLETE
PHASE III : CODE DEVELOPMENT BEGINS

180 days

Rs 2,000,000

145 defects/kLOC

0 defects/kLOC

Rs 1,950,000
Sir, 
This is to inform you that 10% of code modules have been developed. Would you like to forward these code modules for review or sent them directly for testing?

As a Manager, what would your decision be? ?

- Review must be started right away!
- Perform review only after development of all modules.
- Wait for some more modules to come before initiating review process.
- Review is very expensive, I need more time to think about it.
- Review is not required, testing will uncover the problems anyway.
Among your 8 team members, select a person to carry out the review process.

8 yrs

4-6 yrs

2-3 yrs

0 yrs

Recruit a full time reviewer

180 days

Rs 2,000,000

145 defects/kLOC
Select the type of review process you would like to use in this project?

HEAVY WEIGHT REVIEW PROCESS
Formal review, Over the shoulder, E-mail pass around, Pair programming etc.

LIGHT WEIGHT REVIEW PROCESS
Tool assisted review

180 days  Rs 2,000,000  145 defects/kLOC
Formulate the Policy to be used while carrying out review process

The policy to review LOCs should maximize the quality of software code and at the same time increase the productivity of reviewer involved. Which of the following policies would you implement?

- Review 100-200 LOC/hour
- Review less than 300-500 LOC/hour
- Review at least 600-800 LOC/hour
- Review 1000 or more LOC /hour
- Don't worry about LOC and time. Proceed as you wish!
Sir,
This is to inform you that recently I have been finding myself occupied all the time with reviewing codes which leaves me no time to develop modules assigned to me. I do not want to complain but it is affecting my performance both as reviewer and developer. Please help me out.

As a Manager, what will you do to handle such a situation?

- Implement a new policy where in only fresher's will submit their code for review and senior members will review the code on their own.
- Select one more team member to perform code review.
- Ask him to review as much as he can and leave the rest.
- Recruit another reviewer.

180 days
Rs 2,000,000
145 defects/kLOC
Hello Mr Manager,
I wanted to bring this to your notice that Mr Reviewer has been threatening the fresher's that they will be given poor feedback in performance evaluation if they don't improve their coding skills. This is not only affecting their performance but they are also loosing faith in our system. Please do something!!
It has come to your notice that reviewer has been threatening the fresher's.

As a manager what steps would you take to foster a good code review culture in your team?

- Exclude the review feedback from performance evaluation and promote the idea that finding defects is good as long as you learn from it.
- Clarify it to developers that reviews are meant to help them correct bad habits, learn new tricks and expand their capabilities.
- Warn reviewer not to repeat such behavior in future and focus only on code review and quality.
- Include the review feedback in performance evaluation and promote the idea that finding defects is bad.
- Warn the developers to improvise their coding skills or else there can be serious repercussions.
Sir,

I have been observing that our new developers lack the knowledge of practices being followed in our organization. It would be great for them as well as for me if they are made aware of these things as it will fasten up the review process and save us all some time. It would be great if you release some guidelines or instruction notice to them regarding the same,

Which of the following guidelines will you issue for them?

- Make a habit of adding annotations to the code.
- Maintain a personal checklist of mistakes that you often make.
- Thoroughly scan through the code in the end and look for defects then. Maintaining a checklist is not mandatory.
- Reviewer is there to look out for the bugs in their code, they should only focus on the development part.
- To not submit their code for review if they are 100% sure that it is bug free. Instead add it to the final software repository and commit.

180 days
Rs 2,000,000
145 defects/kLOC
Hello Mr Manager,
I wanted to talk to you regarding the project deadline. Due to an unforeseen market change we want the deadline to be bumped up by 3 weeks. I know that we are only 2 months away from deadline but it is critical - so much that the project will be worthless if it is not received by the new deadline. What do you say?
You are on call with your project’s sponsor

Okay! But I will need budget raise to pay incentives to my team members
Don’t worry. I will hire new employees to achieve this new deadline.
We will manage. I will ask my team to focus only on project delivery and leave code reviews for later.
Lets call off the project.
I will stick to the original schedule and see if project can be completed.
Sir,
This to inform you that our developers often forget to fix bugs found during code reviews. It is hard for me to keep track of these unresolved defects, which in turn is affecting the code quality too. Please look into this issue and suggest a good way to ensure that defects are fixed before code is given ‘All Clear’ sign.

Choose what steps will you take to handle this situation?

- Reviewer should log the bugs and discuss them with the developer along with the deadline till which they will be fixed and submitted for review again.
- Ask reviewer to himself fix the deadline for the developer to resolve the issues uncovered during code review and send updated code for review again.
- Developers should be informed about the defects and given the freedom to resolve them as and when they can.
- The reviewer should himself fix the bugs if it has been unresolved for a long.
- Fixing codes is not as important as locating them, submit the code with defects in case they are un resolved.