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① 3 metrics to access code review quality —

1) Number of defects found per hour by reviewer.
2) Number of defects found per 100 lines of code.
3) speed of inspection; the speed at which review takes place. (can be line reviewed per hour)

The metrics can be compared to all reviewers and it should be seen whether there is uniformity. If there is a big difference, it would mean low quality.

Side benefits of code review —

1) Reviewer will get the idea of implementation while reviewing. He may work on it later too.
2) While reviewing, a design fault may come out. It will make the project better after discussion.
3) It is a great way of knowledge sharing. Once a mistake is identified, developer will be aware of it next time.
4) It is good for team work and understanding between all (developers and reviewers)
5) Such team work, will achieve a cosistent coding style among all. Everybody will tend to follow same convention or stylings.

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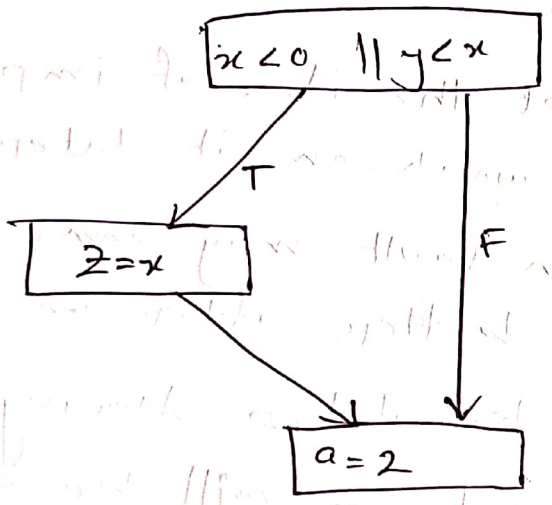
(2)

Code snippet:-

```
void F(int x, int y)
{
    if (x<0 || y<x)
    {
        z = x;
    }
    a = 2;
}
```

Control flow graph—



Now, for testset $\{(x=-2, y=5), (x=4, y=5)\}$ statement, branch and path coverage will be used, since, all statements, all edges and all paths are traversed. But the clause $y<x$ has never been made ~~false~~ true.

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So, it does not achieve condition coverage. For condition coverage, we need every clause of condition to be made at TRUE once, at least FALSE once.

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