

Modified Condition/Decision Coverage (MC/DC)



It is a form of exhaustive testing, in that during testing all of the below must be true at least once:

- Each decision tries every possible outcome
- Each condition in a decision takes on every possible outcome
- Each entry and exit point is invoked
- Each condition in a decision is shown to independently affect the outcome of the decision

Independence of a condition is shown by proving that only one condition changes at a time. A condition is shown to affect a decision's outcome independently by varying just that decision while holding fixed all other possible conditions.

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```
#include<stdio.h>
main()
{
    int iX, iY, iZ;
    scanf("%d ,%d, %d", &iX, &iY, &iZ);
    if (iX>5)||(iY==0)
        iX=iX/iZ;
    if (iX==10)&&(iZ>1)
        iX=iX+1;
    printf("%d", iX);
}
```

作业



试分别给出满足**MC/DC**覆盖准则和路径覆盖准则的测试用例集合，保证两种覆盖率达到**100%**。在给出的测试集合中，对于每一个用例，要求说明每个用例的覆盖情况。