EMSE 6367: Software Testing

Quiz 4: Controlflow-based Coverage Criteria

Due: 10/02/Friday (11:59:59 pm Dallas time)
(No late submission will be accepted)

Consider the following program that is supposed to check if the input data item is in the range 0 to 100, inclusive

```
int check(x);
int x;
{
if ((x>=0 )&& (x<=200))
check=true;
else check=false;
}
```

a) Find a test set T which is adequate with respect to the **<u>block coverage</u>** and **<u>does not</u>** reveal the error

b) Find a test set T which is adequate with respect to the **<u>block coverage</u>** and **<u>reveals</u>** the error

c) Find a test set T which is adequate with respect to the **<u>simple condition coverage</u>** and **<u>does not</u>** reveal the error

d) Find a test set T which is adequate with respect to the **<u>simple condition coverage</u>** and **<u>reveals</u>** the error

e) Find a test set T which is adequate with respect to the **<u>decision coverage</u>** and **<u>does not</u>** reveal the error

f) Find a test set T which is adequate with respect to the **<u>decision coverage</u>** and **<u>reveals</u>** the error

g) Find a test set T which is adequate with respect to the **<u>multiple condition coverage</u>** and **<u>does not</u>** reveal the error

h) Find a test set T which is adequate with respect to the **<u>multiple condition coverage</u>** and **<u>reveals</u>** the error