

# EMSE 6367: Software Testing

## Quiz 4: Controlflow-based Coverage Criteria

(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 block coverage and does not reveal the error
- b) Find a test set T which is adequate with respect to the block coverage and reveals the error
- c) Find a test set T which is adequate with respect to the simple condition coverage and does not reveal the error
- d) Find a test set T which is adequate with respect to the simple condition coverage and reveals the error
- e) Find a test set T which is adequate with respect to the decision coverage and does not reveal the error
- f) Find a test set T which is adequate with respect to the decision coverage and reveals the error
- g) Find a test set T which is adequate with respect to the multiple condition coverage and does not reveal the error
- h) Find a test set T which is adequate with respect to the multiple condition coverage and reveals the error