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**Project 3**

From homework 6, I will include the code section and the resulting graph for ease of use for creating the paths through the graph. With these, we will create paths to achieve statement , branch, and path coverage.

int chk\_forward(const char\* new\_pass, int newlen, int new\_index,

const char\* old\_pass, int oldlen, int old\_index)

{

int i;

int same = FALSE;

int count = 1;

**A**

const int substrlen = 5;

new\_index++; old\_index++;

for(i = 1; i < substrlen; i++) {

**B**

if((isalpha(new\_pass[new\_index])) &&

**C**

**C**

(isalpha(old\_pass[old\_index]))) {

if(lettercmp(new\_pass, new\_index, old\_pass,

**D**

old\_index)) {

count++;

**E**

} else {

count = 1;

**F**

}

} else {

if(!strncmp(&new\_pass[new\_index],

**G**

&old\_pass[old\_index], sizeof(char))) {

count++;

**H**

} else {

count = 1;

**I**

}

}

old\_index = (old\_index + 1) % oldlen;

**J**

new\_index = (new\_index + 1) % newlen;

}

if(count >= 5) {

**K**

same = TRUE;

**L**

}

return same;

**M**

}