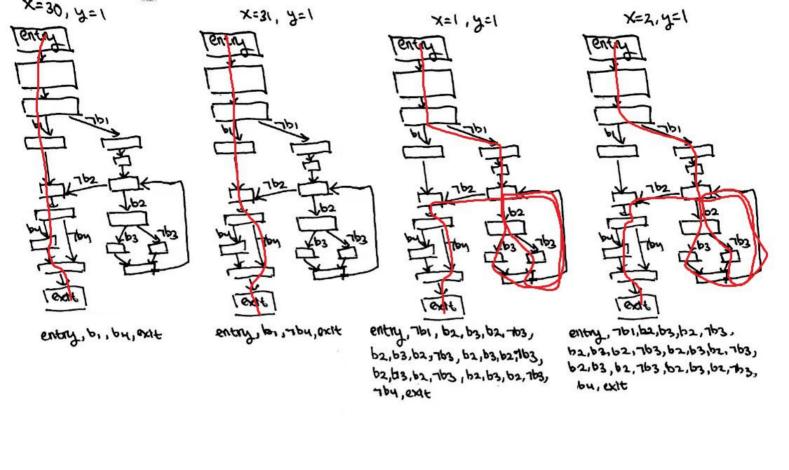
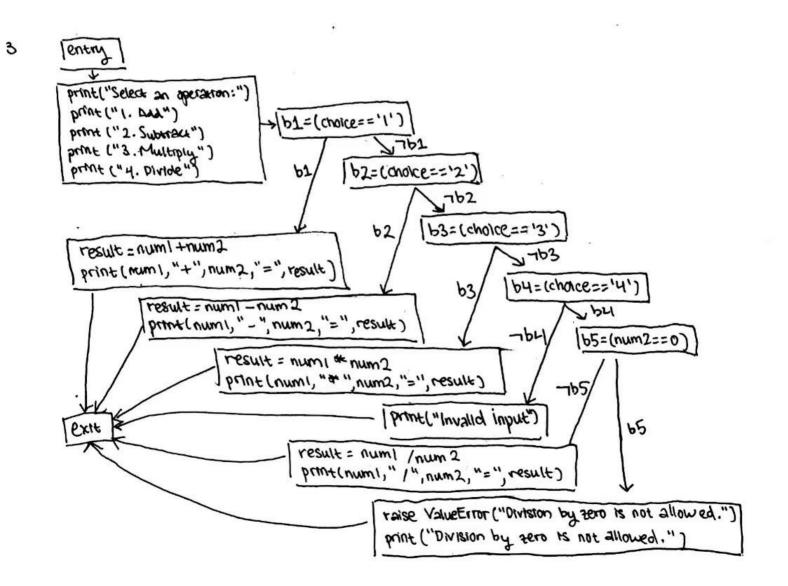
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Yohandi -120040025
CSC4001 Assignment 1
11.1(a) C
    (6) A,B,D
    (c) C,D
1.2 (2) 7
     (P)C,D
     (c) C
     (d) A,B
2(2)
             | SUFTER
             num1=x
              num 2=4
              sums = num1+num2
              product = num1 *num2
              b1 = (sums > 30)
                                           191
                                           print ("The sums is not greater than 30.")
    print ("The sums is greater than 30."
                                                    12=0
                                                    b2=(i(10)
                                                         62
                                                   b3=(iº/02==0)
                                                       63
                                                                 763
                                               product += 1 | product = 2
                      b4=(product 1,j==0)
                                        764
                     product *=-1
                           return product
                               exit
 (b) Yes, at least two tests are needed, example:
     + x=30, y=1
     > x=1 , y=1
 (c) Yes, at least four tests are needed, example:
                                        (note that: this is with an assumption that the for
                         かべこし, なこし
     -> x=30, y=1
                                                   loop (deyclic) part to considered as a
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long and fixed path that it always cover the "only" path which is i=0,.....9)

-> x=31, y=1

-3 x=2, y=1





- (2) Statement coverage: $\frac{18}{21} \approx 86\%$ branch coverage: $\frac{6}{10} \approx 80\%$ Path coverage: $\frac{4}{10} \approx 67\%$
- (b) Test set that achieve 100% statement coverage:

 {choice = '1', num! = 1, num 2 = 13',

 {choice = '2', num! = 2, num 2 = 23',

 {choice = '4', num! = 4, num 2 = 43';

 {choice = '4', num! = 4, num 2 = 43';

 {choice = '4', num! = 4, num 2 = 03';

 {choice = '5', num! = 5, num 2 = 53.

Test set that a chieve 100% branch coverage:

{ choice='1', num1=1, num2=13;

{ choice='2', num1=2, num2=23;

{ choice='3', num1=3, num2=33;

{ choice='4', num1=4, num2=43;

{ choice='4', num1=4, num2=93.

Test set that a chieve 100% path coverage:

{ choice='1', num1=1, num2=13;

{ choice='2', num1=2, num2=23;

{ choice='2', num1=2, num2=23;

{ choice='4', num1=4, num2=43;

{ choice='4', num1=4, num2=43;

{ choice='4', num1=4, num2=43;

} choice='4', num1=4, num2=33.