## Programming using C

week 03 practice session and coding

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Department:AIML-'B' Roll No.:241501079 Question 1 Correct Marked out of F Flag question

Write a program to read two integer values and print true if both the numbers end with the same digit, otherwise print false. Example: If 698 and 768 are given, program should print true as they both end with 8. Sample Input 1 25 53 Sample Output 1 false Sample Input 2 27 77 Sample Output 2 true

Answer: (penalty regime: 0 %)

```
int a, b, c, d;
scanf("%d%d", &a, &b);
c = a % 10;
d = b % 10;
if(c == d)
                   printf("true");
                  printf("false");
```

|   | Input | Expected | Got   |   |
|---|-------|----------|-------|---|
| ~ | 25 53 | false    | false | V |
| ~ | 27 77 | true     | true  | ~ |

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Question 3
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P Flag question Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third. For example, 3, 5 and 4 form a Pythagorean triple, since 3\*3 + 4\*4 = 25 = 5\*5 You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters. Sample Input 1 3 5 4 Sample Output 1 yes Sample Input 2 5 8 2 Sample Output 2 no

Answer: (penalty regime: 0 %)

```
int main()
         int a,b,c;
scanf("%d%d%d", &a, &b, &c);
if((c * c) + (b * b) == (a *a))
              printf("yes");
          else if((c * c) + (a * a) == (b * b))
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             printf("yes");
          else if((a * a) + (b * b) == (c * c))
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17
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             printf("yes");
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26 }
         else
             printf("no");
          return 0;
```

|   | Input       | Expected | Got |   |
|---|-------------|----------|-----|---|
| ~ | 3<br>5<br>4 | yes      | yes | ~ |
| ~ | 5<br>8<br>2 | no       | no  | ~ |

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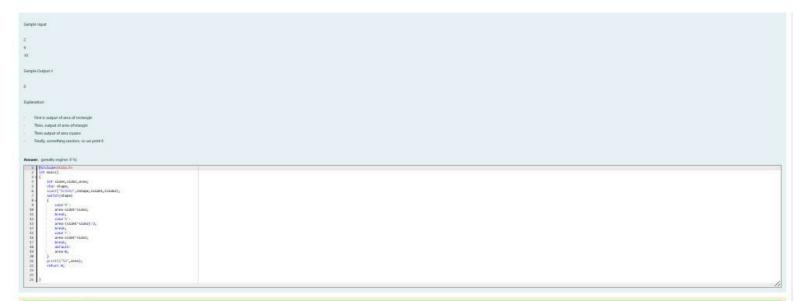
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