Homework 1

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Problem 1: Python Basics

Problem 1-1. Show the result of evaluating each expression. Be sure that the value is in the proper form to indicate its type (int, or float). If the expression is illegal, explain why.

1. 4.0 / 10.0 + 3.5 \* 2

=0.4+7.0=7.4 (float)

(b) 10 % 4 + 6 / 2

=2+3.0=5.0 (float)

(c) (6.5 - 5.0) \*\* (0.5) + 7 \* 3

=1.2247+21=22.2247 (float)

(d) 3 \* 10 / 3 + 10 % 3

=10.0+1=11.0 (float)

(e) 5 / (1 // 2)

=5/0 (illegal) ZeroDivisionError: division by zero

Problem 1-2. What is the exact result of each of the following when evaluated? (a) 12 / 6.0

2.0 (float)

(b) 21 // 10

2 (int)

(c) 25 // 10.0

2.0 (float)

(d) 12 / 6

2.0 (float)

Problem 1-3.

a = 2

b = 5

c = 2

q = b\*b-4\*a\*c

# q\_sr = q\*\*(1//2) …… Error 此處等同於q\_sr = q\*\*(0) =1

q\_sr = q\*\*(1/2)

# x1 = (-b+q\_sr)/2\*a …… Error 因為此處等同於x1 = ((-b+q\_sr)/2)\*a

x1 = (-b+q\_sr)/(2\*a)

# x2 = (-b-q\_sr)/2\*a …… Error 同上

X2 = (-b-q\_sr)/(2\*a)

# print("x1,' x1, "x2=" x2) 雙引號未成對,且x2缺少逗點隔開

print("x1=", x1, "x2=", x2)

正確答案：x1 = -0.5, x2= -2.0

一張含有 文字, 螢幕擷取畫面, 軟體, 字型 的圖片

自動產生的描述