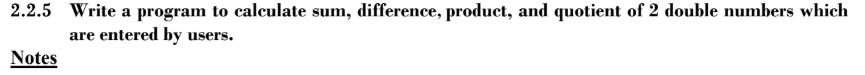
\* Problem 2.2.5

A close-up of text

AI-generated content may be incorrect.

Source code:

A screen shot of a computer code

AI-generated content may be incorrect.

Test case 1: b != 0

A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Test case 2: b = 0

A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

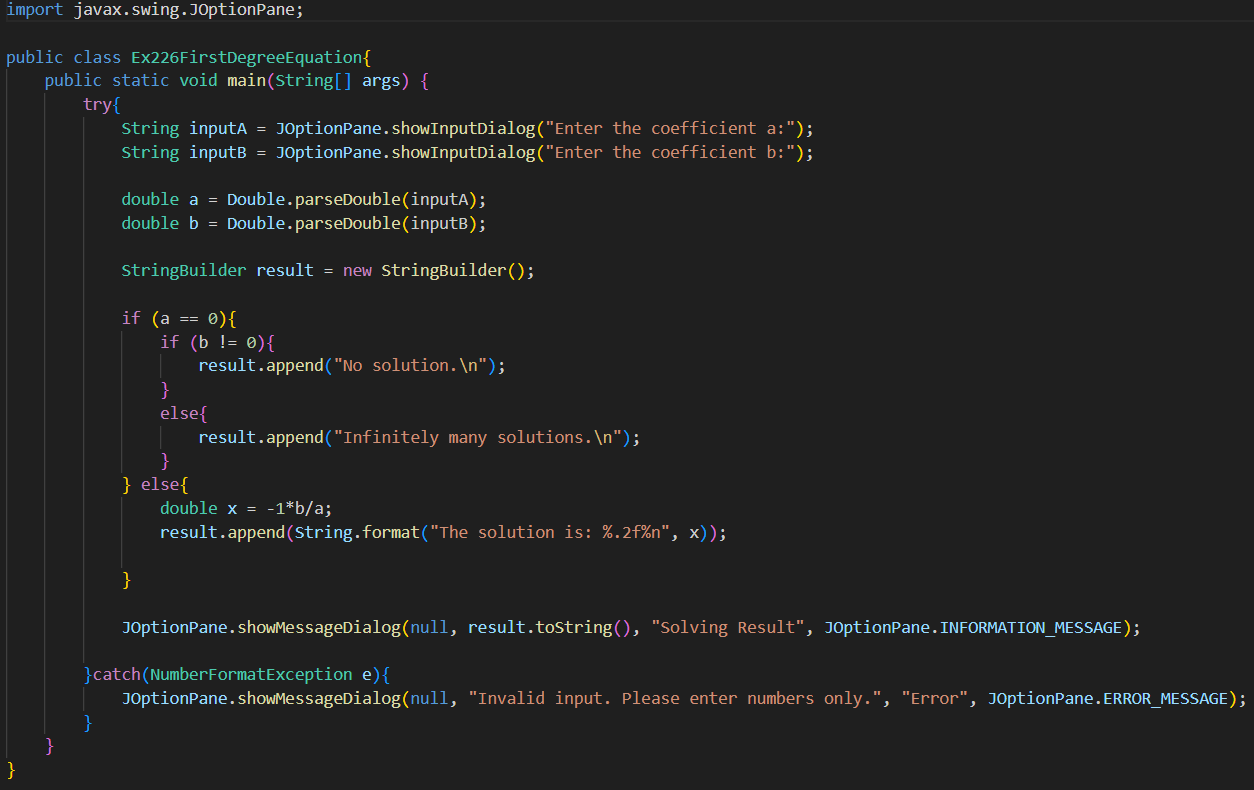
AI-generated content may be incorrect.

\* Problem 2.2.6

A paper with text and images of equations

AI-generated content may be incorrect.

Source code of sub-problem 1:



Test case 1: a = 0; b = 0

A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.

Test case 2: a = 0; b != 0

A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.

Test case 3: a != 0

A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.

Source code of sub-problem 2:

A computer screen shot of a program code

AI-generated content may be incorrect.

Test case 1: det != 0 and det1 != 0 and det2 != 0

A screenshot of a computer error message

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error message

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.

Test case 2: det = 0 and det1 != 0 and det 2 != 0

A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error message

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.

A screenshot of a computer error

AI-generated content may be incorrect.

Test case 3: det = 0 and det1 = 0 and det 2 = 0

A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error message

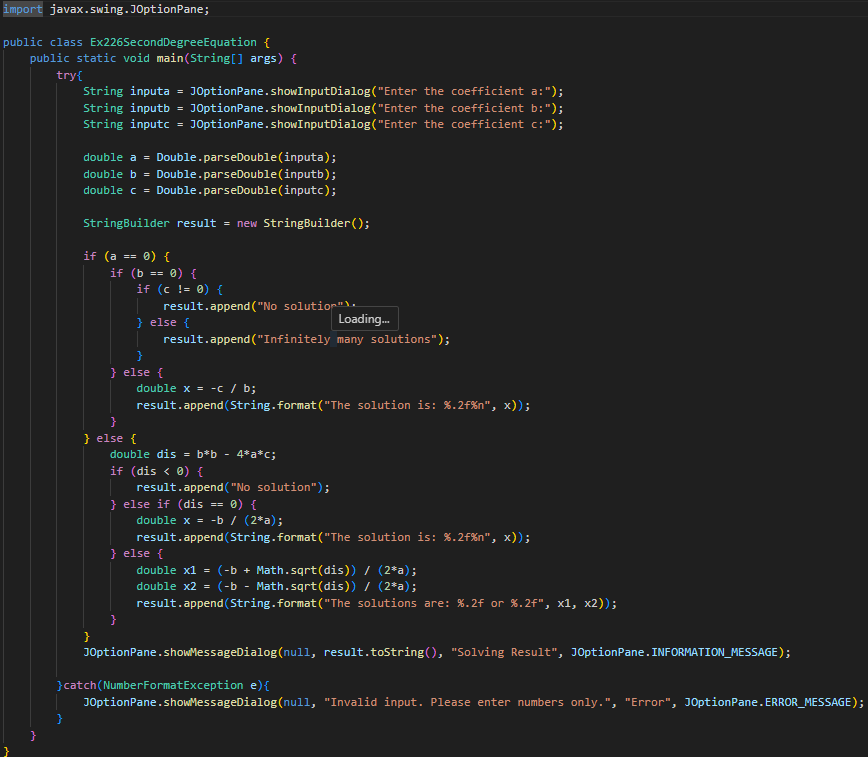
AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error message

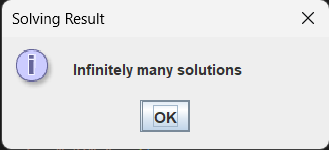
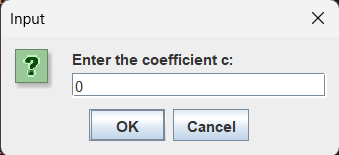
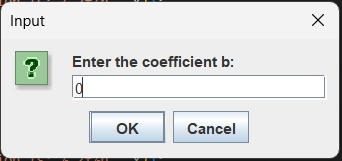
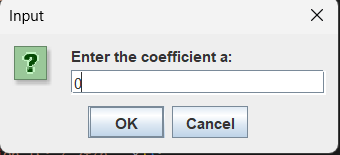
AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.

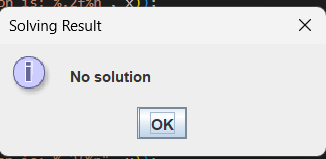
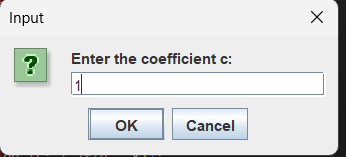
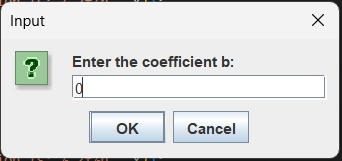
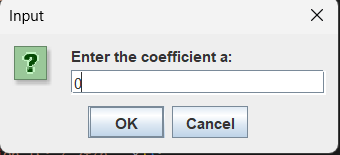
Source code of sub-problem 3:



Test case 1: a = 0 and b = 0 and c = 0



Test case 2: a = 0 and b = 0 and c != 0



Test case 3: a != 0 and dis > 0

A screenshot of a computer error message

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.

Test case 4: a! = 0 and dis = 0

A screenshot of a computer error message

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.

A screenshot of a computer error message

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.

Test case 5: a != 0 and dis < 0

A screenshot of a computer error message

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.A screenshot of a computer error message

AI-generated content may be incorrect.A screenshot of a computer error

AI-generated content may be incorrect.

\* Problem 6.1

A screenshot of a computer

AI-generated content may be incorrect.A screenshot of a computer program

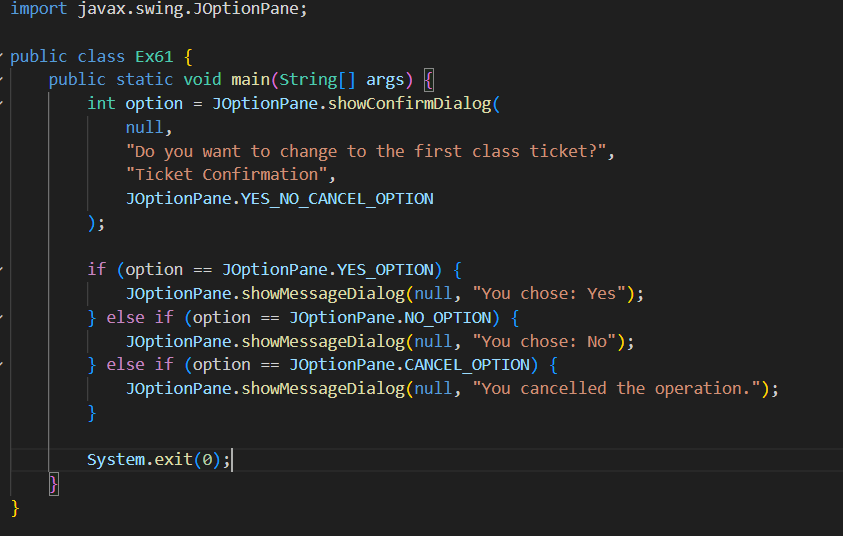
AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.

- In the code, the program only checks for the **“Yes”** case, so any other choice (including “No” and “Cancel”) will result in the message:

You’ve chosen: No

- To customize the options shown to users, use the **JOptionPane.showOptionDialog()** method, which lets you define your own button texts such as “Yes” and “No” or “I do” and “I don’t”.



\* Problem 6.2

A screenshot of a computer program

AI-generated content may be incorrect.A screenshot of a computer program

AI-generated content may be incorrect.

Source code:

A computer screen shot of a program code

AI-generated content may be incorrect.

Terminal:

A black screen with white text

AI-generated content may be incorrect.

\* Problem 6.3

A white background with black text

AI-generated content may be incorrect.

Source code:

A computer screen shot of code

AI-generated content may be incorrect.

Terminal:

A screen shot of a computer

AI-generated content may be incorrect.

\* Problem 6.4

A black text on a white background

AI-generated content may be incorrect.A calendar with numbers and a number of months

AI-generated content may be incorrect.

Source code:

A screenshot of a computer program

AI-generated content may be incorrect.

Terminal:

A black background with white text

AI-generated content may be incorrect.

\* Problem 6.5

A screenshot of a computer program

AI-generated content may be incorrect.

Source code:

A screen shot of a computer program

AI-generated content may be incorrect.A computer screen shot of a program code

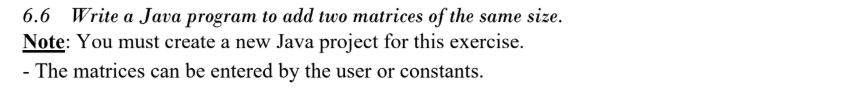
AI-generated content may be incorrect.

Terminal:

A black background with white numbers

AI-generated content may be incorrect.

\* Problem 6.6



Source code:

A screen shot of a computer program

AI-generated content may be incorrect.A screen shot of a computer program

AI-generated content may be incorrect.

Terminal:

A screenshot of a computer

AI-generated content may be incorrect.