

姓名 Name : \_\_\_\_\_ 學號 Student ID # : \_\_\_\_\_

Quiz 1

MATH 203: Discrete Mathematics I

Consider the equation

$$x_1 + \cdots + x_4 \leq 9$$

under the conditions

$$x_1 \geq 0, x_2 \geq 0, x_3 \geq 1, x_4 \geq 0.$$

Count the number of the integer solutions.

Check code = (sum of all digits of your answer) mod 10

**Solution.**

CountIntSol 1



Indicating your answer by **underlining it** or **circling it**.  
Compute the **check code** and fill it into the **box on the right**.

check code

姓名 Name : \_\_\_\_\_ 學號 Student ID # : \_\_\_\_\_

Quiz 1

MATH 203: Discrete Mathematics I

Consider the equation

$$x_1 + \cdots + x_3 \leq 4$$

under the conditions

$$x_1 \geq 0, x_2 \geq 1, x_3 \geq 0.$$

Count the number of the integer solutions.

Check code = (sum of all digits of your answer) mod 10

**Solution.**

CountIntSol 2



Indicating your answer by **underlining it** or **circling it**.  
Compute the **check code** and fill it into the **box on the right**.

check code

姓名 Name : \_\_\_\_\_ 學號 Student ID # : \_\_\_\_\_

Quiz 1

MATH 203: Discrete Mathematics I

Consider the equation

$$x_1 + \cdots + x_4 \leq 7$$

under the conditions

$$x_1 \geq 0, x_2 \geq 0, x_3 \geq 1, x_4 \geq 1.$$

Count the number of the integer solutions.

Check code = (sum of all digits of your answer) mod 10

**Solution.**

CountIntSol 3



Indicating your answer by **underlining it** or **circling it**.  
Compute the **check code** and fill it into the **box on the right**.

check code

姓名 Name : \_\_\_\_\_ 學號 Student ID # : \_\_\_\_\_  
Quiz 1 MATH 203: Discrete Mathematics I

Consider the equation

$$x_1 + \cdots + x_3 = 7$$

under the conditions

$$x_1 \geq 0, x_2 \geq 1, x_3 \geq 1.$$

Count the number of the integer solutions.

Check code = (sum of all digits of your answer) mod 10

**Solution.**



Indicating your answer by **underlining it** or **circling it**.  
Compute the **check code** and fill it into the **box on the right**.

check code

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姓名 Name : \_\_\_\_\_ 學號 Student ID # : \_\_\_\_\_

Quiz 1

MATH 203: Discrete Mathematics I

Consider the equation

$$x_1 + \cdots + x_5 = 7$$

under the conditions

$$x_1 \geq 1, x_2 \geq 0, x_3 \geq 1, x_4 \geq 0, x_5 \geq 0.$$

Count the number of the integer solutions.

Check code = (sum of all digits of your answer) mod 10

**Solution.**

CountIntSol 5



Indicating your answer by **underlining it** or **circling it**.  
Compute the **check code** and fill it into the **box on the right**.

check code

姓名 Name : \_\_\_\_\_ 學號 Student ID # : \_\_\_\_\_  
Quiz 1 MATH 203: Discrete Mathematics I

Consider the equation

$$x_1 + \cdots + x_5 \leq 4$$

under the conditions

$$x_1 \geq 1, x_2 \geq 1, x_3 \geq 0, x_4 \geq 0, x_5 \geq 0.$$

Count the number of the integer solutions.

Check code = (sum of all digits of your answer) mod 10

**Solution.**

CountIntSol 6



Indicating your answer by **underlining it** or **circling it**.  
Compute the **check code** and fill it into the **box on the right**.

check code

姓名 Name : \_\_\_\_\_ 學號 Student ID # : \_\_\_\_\_

Quiz 1

MATH 203: Discrete Mathematics I

Consider the equation

$$x_1 + \cdots + x_4 \leq 5$$

under the conditions

$$x_1 \geq 1, x_2 \geq 0, x_3 \geq 0, x_4 \geq 0.$$

Count the number of the integer solutions.

Check code = (sum of all digits of your answer) mod 10

**Solution.**

CountIntSol 7



Indicating your answer by **underlining it** or **circling it**.  
Compute the **check code** and fill it into the **box on the right**.

check code

姓名 Name : \_\_\_\_\_ 學號 Student ID # : \_\_\_\_\_  
Quiz 1 MATH 203: Discrete Mathematics I

Consider the equation

$$x_1 + \cdots + x_3 = 8$$

under the conditions

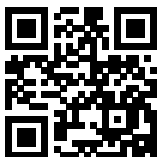
$$x_1 \geq 1, x_2 \geq 0, x_3 \geq 0.$$

Count the number of the integer solutions.

Check code = (sum of all digits of your answer) mod 10

**Solution.**

CountIntSol 8



Indicating your answer by **underlining it** or **circling it**.  
Compute the **check code** and fill it into the **box on the right**.

check code



姓名 Name : \_\_\_\_\_ 學號 Student ID # : \_\_\_\_\_

Quiz 1

MATH 203: Discrete Mathematics I

Consider the equation

$$x_1 + \cdots + x_4 \leq 8$$

under the conditions

$$x_1 \geq 1, x_2 \geq 0, x_3 \geq 0, x_4 \geq 0.$$

Count the number of the integer solutions.

Check code = (sum of all digits of your answer) mod 10

**Solution.**

CountIntSol 9



Indicating your answer by **underlining it** or **circling it**.  
Compute the **check code** and fill it into the **box on the right**.

check code

姓名 Name : \_\_\_\_\_ 學號 Student ID # : \_\_\_\_\_

Quiz 1

MATH 203: Discrete Mathematics I

Consider the equation

$$x_1 + \cdots + x_4 = 5$$

under the conditions

$$x_1 \geq 0, x_2 \geq 1, x_3 \geq 1, x_4 \geq 0.$$

Count the number of the integer solutions.

Check code = (sum of all digits of your answer) mod 10

**Solution.**

CountIntSol 10



Indicating your answer by **underlining it** or **circling it**.  
Compute the **check code** and fill it into the **box on the right**.

check code