**แบบฝึกหัด: การจัดเรียงข้อมูล**

**1. การเรียงลำดับแบบเลือก (Selection Sort)**

จงแสดงขั้นตอนการทํางานของการเรียงลําดับแบบเลือก เพื่อจัดเรียงข้อมูลจากน้อยไปมาก



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| 4 | 7 | 10 | 23 | 18 | 43 | 19 | 5 | 66 | 14 |

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| 4 | 5 | 10 | 23 | 18 | 43 | 19 | 7 | 66 | 14 |

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| 4 | 5 | 7 | 23 | 18 | 43 | 49 | 10 | 66 | 14 |

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| 4 | 5 | 7 | 10 | 18 | 43 | 49 | 23 | 66 | 14 |

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| 4 | 5 | 7 | 10 | 14 | 43 | 49 | 23 | 66 | 18 |

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| 4 | 5 | 7 | 10 | 14 | 18 | 49 | 23 | 66 | 43 |

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| 4 | 5 | 7 | 10 | 14 | 18 | 23 | 49 | 66 | 43 |

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| 4 | 5 | 7 | 10 | 14 | 18 | 23 | 43 | 66 | 49 |

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| 4 | 5 | 7 | 10 | 14 | 18 | 23 | 43 | 49 | 66 |

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**2. การเรียงลำดับแบบฟอง ( Bubble Sort)**



จงแสดงขั้นตอนการทํางานของการเรียงลําดับแบบฟอง เพื่อจัดเรียงข้อมูลจากน้อยไปมาก พร้อมทั้งนับจำนวนครั้งในการสลับค่าด้วย

การทำงานรอบที่ 1

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การทำงานรอบที่ 2

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การทำงานรอบที่ 3

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การทำงานรอบที่ 4

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การทำงานรอบที่ 5

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**3. การเรียงลำดับแบบแทรก (Insert Sort)**

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| 98 | 87 | 76 | 65 | 54 |

จงแสดงขั้นตอนการทํางานของการเรียงลําดับแบบแทรก เพื่อจัดเรียงข้อมูลจากน้อยไปมาก

การทำงานรอบที่ 1

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การทำงานรอบที่ 2

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การทำงานรอบที่ 3

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การทำงานรอบที่ 4

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การทำงานรอบที่ 5

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