# Киеу Чыонг Занг-P3107

Номер ИСУ: 343749

# Задание 3 - Вариант 18

## A = 51, B = 69.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A > 0, | B > 0 |  |  |  |  |  |  |  |  | Интерпретации | | | | |
|  |  |  |  |  |  |  |  |  |  |  | Знаковая | |  | Беззнаковая | |
| - | Aпр. | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |  | - | 51 |  | - | 51 |
| Bпр. | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |  | 69 |  | 69 |
|  | Cдоп. | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 |  |  |  |  |  | 238? |
|  | Cпр. | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |  |  | -18 |  |  |  |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CF = 1 | PF = 1 | AF = 1 | ZF = 0 | SF = 1 | OF = 0 |

Для беззнаковой интерпретации результат неверен из-за возникающего займа из разряда за пределами формата

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A < 0, | B > 0 |  |  |  |  |  |  |  |  | Интерпретации | | | | |
|  |  |  |  |  |  |  |  |  |  |  | Знаковая | |  | Беззнаковая | |
| - | Aдоп. | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |  | - | -51 |  | - | 205 |
| Bпр. | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |  | 69 |  | 69 |
|  | Cдоп. | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  |  |  |  |  | 136 |
|  | Cпр. | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |  |  | -120 |  |  |  |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CF = 0 | PF = 1 | AF = 0 | ZF = 0 | SF = 1 | OF = 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A > 0, | B < 0 |  |  |  |  |  |  |  |  | Интерпретации | | | | |
|  |  |  |  |  |  |  |  |  |  |  | Знаковая | |  | Беззнаковая | |
| - | Aпр. | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |  | - | 51 |  | - | 51 |
| Bдоп. | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 |  | -69 |  | 187 |
|  | Cпр. | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |  |  | 120 |  |  | 120? |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CF = 1 | PF = 1 | AF = 1 | ZF = 0 | SF = 0 | OF = 0 |

Для беззнаковой интерпретации результат неверен из-за возникающего займа из разряда за пределами формата

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A < 0, | B < 0 |  |  |  |  |  |  |  |  | Интерпретации | | | | |
|  |  |  |  |  |  |  |  |  |  |  | Знаковая | |  | Беззнаковая | |
| - | Aдоп. | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |  | - | -51 |  | - | 205 |
| Bдоп. | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 |  | -69 |  | 187 |
|  | Cпр. | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |  |  | 18 |  |  | 18 |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CF = 0 | PF = 1 | AF = 0 | ZF = 0 | SF = 0 | OF = 0 |

## 

2. Правило для подбора выглядит следующим образом:

*А + В* > 128, значит 128 – *А < В* < 127

*А* = 51 (неизменно), *В* = 80 (подбираем).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A < 0, | B > 0 |  |  |  |  |  |  |  |  | Интерпретации | | | | |
|  |  |  |  |  |  |  |  |  |  |  | Знаковая | |  | Беззнаковая | |
| - | Aдоп. | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |  | - | -51 |  | - | 205 |
| Bпр. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |  | 80 |  | 80 |
|  | Cпр. | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |  |  | 125? |  |  | 125 |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CF = 0 | PF = 1 | AF = 0 | ZF = 0 | SF = 0 | OF = 1 |

Для знаковой интерпретации результат неверен из-за возникающего переполнения

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A > 0, | B < 0 |  |  |  |  |  |  |  |  | Интерпретации | | | | |
|  |  |  |  |  |  |  |  |  |  |  | Знаковая | |  | Беззнаковая | |
| - | Aпр. | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |  | - | 51 |  | - | 51 |
| Bдоп. | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |  | -80 |  | 176 |
|  | Cдоп. | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |  |  |  |  |  | 131? |
|  | Cпр. | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |  |  | -125? |  |  |  |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CF = 1 | PF = 0 | AF = 0 | ZF = 0 | SF = 1 | OF = 1 |

Для знаковой интерпретации результат неверен из-за возникающего переполнения. Для беззнаковой интерпретации результат неверен из-за возникающего займа из разряда за пределами формата

## 

## 3.A = 59, B =69

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A > 0, | B < 0 |  |  |  |  |  |  |  |  | Интерпретации | | | | |
|  |  |  |  |  |  |  |  |  |  |  | Знаковая | |  | Беззнаковая | |
| - | Aпр. | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 |  | - | 59 |  | - | 59 |
| Bдоп. | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 |  | -69 |  | 187 |
|  | Cдоп. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  | 128? |
|  | Cпр. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  | -128? |  |  |  |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CF = 1 | PF = 0 | AF = 0 | ZF = 0 | SF = 1 | OF = 1 |

Для знаковой интерпретации результат неверен из-за возникающего переполнения. Для беззнаковой интерпретации результат неверен из-за возникающего займа из разряда за пределами формата

### 

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A < 0, | B > 0 |  |  |  |  |  |  |  |  | Интерпретации | | | | |
|  |  |  |  |  |  |  |  |  |  |  | Знаковая | |  | Беззнаковая | |
| - | Aдоп. | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |  | - | -59 |  | - | 197 |
| Bпр. | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |  | 69 |  | 69 |
|  | Cдоп. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  | 128 |
|  | Cпр. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  | -128 |  |  |  |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CF = 0 | PF = 0 | AF = 0 | ZF = 0 | SF = 1 | OF = 0 |

Результаты для обоих интерпретаций корректны