Задание 2 (Вариант 104)

1. *А* = 87, *В* = 31.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| *А* > 0, *B* > 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *А*пр. | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |  | 87 |  | 87 |
| *B*пр. | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |  | 31 |  | 31 |
| *С*пр. | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |  | 118 |  | 118 |

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| CF=0, | ZF=0, | PF=0, | AF=1, | SF=0, | OF=0. |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *А >* 0, *B <* 0. | | | | | | | | | Интерпретации | | | | |  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая | | | *А*доп | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |  | 87 |  | 87 | | | *B*пр. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  | -31 |  | 129 | | | *С*доп. | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |  |  |  | 216 | | | *С*пр. | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |  | 56 |  | |  | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | CF=0, | ZF=0, | PF=0, | AF=1, | SF=1, | OF=0. | |

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| |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *А* < 0, *B* > 0. | | | | | | | | | Интерпретации | | | | |  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая | | | *А*доп | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |  | -87 |  | 169 | | | *B*пр. | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |  | 31 |  | 31 | | | *С*доп. | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |  |  |  | 200 | | | *С*пр. | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |  | -56 |  | |  | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | CF=0, | ZF=0, | PF=0, | AF=1, | SF=1, | OF=0. | | | | | | | | | | | | | | | |
| *А* < 0, *B* < 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *А*доп. | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |  | -87 |  | 169 |
| *B*доп. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  | -31 |  | 129 |
| *С*доп. | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |  |  |  | 42? |
| *С*пр. | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |  | -106 |  |  |

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| CF=1, | ZF=0, | PF=0, | AF=0, | SF=0, | OF=1. |

1. *А* = 87

Правилодля подбора выглядит следующим образом:

*А + В* > 128, значит 127*>B* >128 - *A*, пусть *В* = 88.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *В* | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |

*А*

7 0 7 0

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *А* > 0, *B* > 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *А*пр. | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |  | 87 |  | 87 |
| *B*пр. | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |  | 88 |  | 88 |
| *С*доп. | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |  |  |  | 153 |
| *С*пр. | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |  | -81? |  |  |

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| CF=0, | ZF=0, | PF=0, | AF=0, | SF=1, | OF=0. |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *А* < 0, *B* < 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *А*доп. | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |  | -87 |  | 169 |
| *B*доп. | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | -88 |  | 168 |
| *С*пр. | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 |  | 81? |  | 81? |

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| CF=1, | ZF=0, | PF=1, | AF=1, | SF=0, | OF=1. |

1. Значение числа *В* фиксируем (*В* = 31), а значение *А* подбираем согласно формуле *А + В* = 128, по которой при сложении положительных чисел будет фиксироваться переполнение, а при сложении отрицательных этого не будет. Тогда *А* = 97.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *B* | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |

*А*

7 0 7 0

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *А* > 0, *B* > 0. | | | | | | | Интерпретации | | | | | | |
|  |  |  |  |  |  |  | |  |  |  | Знаковая |  | Беззнаковая | |
| *А*пр. | 0 | 1 | 1 | 0 | 0 | 0 | | 0 | 1 |  | 97 |  | 97 | |
| *B*пр. | 0 | 0 | 0 | 0 | 1 | 1 | | 1 | 1 |  | 31 |  | 31 | |
| *С*доп. | 1 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |  |  |  | 128 | |
| *С*пр. | 1 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |  | -128? |  |  | |

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| CF=0, | ZF=0, | PF=0, | AF=1, | SF=1, | OF=1. |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *А* < 0, *B* < 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *А*доп. | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |  | -97 |  | 159 |
| *B*доп. | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |  | -31 |  | 225 |
| *С*доп. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  | 128? |
| *С*пр. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | -128 |  |  |

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