Вариант 105 (A = 75, B = 27)

1. *А* = 75, *В* = 27.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *А* > 0, *B* > 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *A*пр. | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |  | 75 |  | 75 |
| *B*пр. | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |  | 27 |  | 27 |
| *C*пр. | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |  | 48 |  | 48 |

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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *А* < 0, *B* > 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *A*доп. | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |  | -75 |  | 181 |
| *B*пр. | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |  | 27 |  | 27 |
| *C*доп. | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |  |  |  | 229 |
| *C*пр. | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | -102 |  |  |

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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 |
| *A*пр. | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |  | 75 |  | 75 |
| *B*доп. | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |  | -27 |  | 229 |
| *C*пр. | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 102 |  | 102? |

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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *А* < 0, *B* < 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *A*доп. | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |  | -75 |  | 181 |
| *B*доп. | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |  | -27 |  | 229 |
| *C*доп. | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |  |  |  | 154? |
| *C*пр. | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |  | -48 |  |  |

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

1. Правило для подбора выглядит следующим образом:

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

*А* = 75 (неизменно), *В* = 64 (подбираем).

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| *А* < 0, *B* > 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *A*доп. | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |  | -75 |  | 181 |
| *B*пр. | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 64 |  | 64 |
| *C*пр. | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 |  | 117? |  | 117 |

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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *А* > 0, *B* < 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *A*пр. | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |  | 75 |  | 75 |
| *B*доп. | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | -64 |  | 192 |
| *C*доп. | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |  |  |  | 139? |
| *C*пр. | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 |  | -117? |  |  |

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

1. Значение числа *В* фиксируем *(В* = 27), а значение *А* подбираем согласно формуле *А + В* = 128, благодаря которой при вычитании из положительного числа отрицательного будет фиксироваться переполнение, а при вычитании из отрицательного числа положительного не будет. Тогда *А* = 101.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *А* > 0, *B* < 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *A*пр. | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |  | 101 |  | 101 |
| *B*доп. | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |  | -27 |  | 229 |
| *C.* | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | -128? |  | 128? |

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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *А* < 0, *B* > 0. | | | | | | | | | Интерпретации | | | |
|  |  |  |  |  |  |  |  |  |  | Знаковая |  | Беззнаковая |
| *A*доп. | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |  | -101 |  | 155 |
| *B*пр. | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |  | 27 |  | 27 |
| *C*. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | -128 |  | 128 |

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