定点除法

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 0 | . | 1 | 0 | 1 | 1 |  |  |  | 0 | . | 1 | 1 | 0 | 1 |  |  | 加减交替 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *dividend（remainder）* | | | | | | | *quotient* | | | | | | *description* |
|  | 0 | . | 1 | 0 | 1 | 1 | 0 | . | 0 | 0 | 0 | 0 | INIT |
| + | 1 | . | 0 | 0 | 1 | 1 |  | . |  |  |  |  |  |
|  | 1 | . | 1 | 1 | 1 | 0 |  | . |  |  |  | 0 | - |
| <- | 1 | . | 1 | 1 | 0 | 0 |  | . |  |  | 0 |  |  |
| + | 0 | . | 1 | 1 | 0 | 1 |  | . |  |  |  |  |  |
|  | 0 | . | 1 | 0 | 0 | 1 |  | . |  |  | 0 | 1 | + |
| <- | 1 | . | 0 | 0 | 1 | 0 |  | . |  | 0 | 1 |  |  |
| + | 1 | . | 0 | 0 | 1 | 1 |  | . |  |  |  |  |  |
|  | 0 | . | 0 | 1 | 0 | 1 |  | . |  | 0 | 1 | 1 | + |
| <- | 0 | . | 1 | 0 | 1 | 0 |  | . | 0 | 1 | 1 |  |  |
| + | 1 | . | 0 | 0 | 1 | 1 |  | . |  |  |  |  |  |
|  | 1 | . | 1 | 1 | 0 | 1 |  | . | 0 | 1 | 1 | 0 | - |
| <- | 1 | . | 1 | 0 | 1 | 0 | 0 | . | 1 | 1 | 0 |  |  |
| + | 0 | . | 1 | 1 | 0 | 1 |  | . |  |  |  |  |  |
|  | **0** | **.** | **0** | **1** | **1** | **1** | **0** | **.** | **1** | **1** | **0** | **1** | **+** |
|  |  | . |  |  |  |  |  | . |  |  |  |  |  |
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|  |  | . |  |  |  |  |  | . |  |  |  |  |  |

* INIT （减除数）
* 加减交替
  + 为正，上商“1”，1位， （减除数）
  + 为负，上商“0”，1位， （加除数）
* Sign bit of quotient：