Hien Duc Vo

ID: 985433

1. Compressing using varInt

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| (964, 17), (1488, 63), (2240, 24), (3168, 32) | | | | | | | |
| 964 | 17 | 1488 | 63 | 2240 | 24 | 3168 | 32 |
| 964 | 17 | 524 | 63 | 752 | 24 | 928 | 32 |
| **0**0000111**1**1000100 | **1**0010001 | 00000100**1**0001100 | **1**0111111 | **0**0000101**0**1110000 | **1**0011000 | **0**0000111**1**0100000 | **1**0100000 |

1. Compressing using Simple 9

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| (964, 17), (1488, 63), (2240, 24), (3168, 32) | | | | | | | |
| 964 | 17 | 1488 | 63 | 2240 | 24 | 3168 | 32 |
| 964 | 17 | 524 | 63 | 752 | 24 | 928 | 32 |
| 14 | 5 | 14 | 7 | 14 | 5 | 14 | 5 |
|  |  |  |  |  |  |  |  |

964 17

|  |  |  |
| --- | --- | --- |
| 0111 | 00001111000100 | 00000000010001 |

524 63

|  |  |  |
| --- | --- | --- |
| 0111 | 00001000001100 | 00000000111111 |

752 24

|  |  |  |
| --- | --- | --- |
| 0111 | 00001011110000 | 00000000011000 |

928 32

|  |  |  |
| --- | --- | --- |
| 0111 | 00001110100000 | 00000000100000 |

1. Bit-Aligned

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| (964, 17), (1488, 63), (2240, 24), (3168, 32) | | | | | | | |
| 964 | 17 | 1488 | 63 | 2240 | 24 | 3168 | 32 |
| 964 | 17 | 524 | 63 | 752 | 24 | 928 | 32 |
| 111111111**0**111000100 | 1111**0**0001 | 111111111**0**000001100 | 11111**0**11111 | 111111111**0**011110000 | 1111**0**1000 | 111111111**0**110100000 | 11111**0**0000 |