**Hex to Binary Conversion**

All the instructions from “bubble\_sort.s” in hexadecimal have been converted to binary.

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| --- | --- | --- |
| 1 | 00300293 | 00000000 00110000 00000010 10010011 |
| 2 | 00503223 | 00000000 01010000 00110010 00100011‬ |
| 3 | 00200293 |  |
| 4 | 00503623 | 00000000 01010000 00110110 00100011 |
| 5 | 00a00293 | 00000000 10100000 00000010 10010011 |
| 6 | 00503a23 | 00000000 01010000 00111010 00100011 |
| 7 | 00400513 | 00000000 01000000 00000101 00010011 |
| 8 | 00300593 | 00000000 00110000 00000101 10010011 |
| 9 | 00051663 | 00000000 00000101 00010110 01100011 |
| 10 | 00059463 | 00000000 00000101 10010100 01100011 |
| 11 | 04000c63 | 00000100 00000000 00001100 01100011 |
| 12 | 00000913 | 00000000 00000000 00001001 00010011 |
| 13 | 04b90663 | 00000100 10111001 00000110 01100011 |
| 14 | 012009b3 | 00000001 00100000 00001001 10110011 |
| 15 | 02b98e63 | 00000010 10111001 10001110 01100011 |
| 16 | 00391293 | 00000000 00111001 00010010 10010011 |
| 17 | 00399313 | 00000000 00111001 10010011 00010011 |
| 18 | 00a282b3 | 00000000 10100010 10000010 10110011 |
| 19 | 00a30333 | 00000000 10100011 00000011 00110011 |
| 20 | 0002be03 | 00000000 00000010 10111110 00000011 |
| 21 | 00033e83 | 00000000 00000011 00111110 10000011 |
| 22 | 01de5c63 | 00000001 11011110 01011100 01100011 |
| 23 | 01c00f33 | 00000001 11000000 00001111 00110011 |
| 24 | 01d00e33 | 00000001 11010000 00001110 00110011 |
| 25 | 01e00eb3 | 00000001 11100000 00001110 10110011 |
| 26 | 01c2b023 | 00000001 11000010 10110000 00100011 |
| 27 | 01d33023 | 00000001 11010011 00110000 00100011 |
| 28 | 00198993 | 00000000 00011001 10001001 10010011 |
| 29 | fc0004e3 | 11111100 00000000 00000100 11100011 |
| 30 | 00190913 | 00000000 00011001 00001001 00010011 |
| 31 | fa000ce3 | 11111010 00000000 00001100 11100011 |
| 32 | 00000263 | 00000000 00000000 00000010 01100011 |
| 33 | 00000013 | 00000000 00000000 00000000 00010011 |