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CS 200 Homework 7

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1. Hex:

=0x70616C53

Unsigned Integer Decimal:

C=12

= 7\*(16^7)+6\*(16^5)+1\*(16^4)+6\*(16^3)+12\*(16^2)+5\*(16^1)+3\*(16^0)

=1885432915

ASCII:

=70 61 6C 53

70=p 61=a 6C=l 53=S

=palS

1. Hex:

=0x666C6F57

=66 6C 6F 57

66=W 6C=o 6F=l 57=f

=Wolf



|  |  |
| --- | --- |
| TYPE | RANGE |
| A |  |
| B |  |
| C | 1111111100XXXXXX  To  1111111111XXXXXX |
| D | 11111100XXXXXXXX  To  11111110XXXXXXXX |
| E | 1111000XXXXXXXXX  To  1111101XXXXXXXXX |
| F | 11000XXXXXXXXXXX  To  11101XXXXXXXXXXX |
| G | 00XXXXXXXXXXXXXX  To  10XXXXXXXXXXXXXX |

Type C has room for 4 opcodes. These opcodes are:

1111111100

1111111101

1111111110

1111111111

As the instructions say we want 7 opcodes, but we cannot take another bit, so it is not possible to do.