In-Class Practice

Data Representation

BINARY - HEXADECIMAL

Convert the following binary numbers to hexadecimal:

1001 1000 0101 0111 = 9857_{16}

0000 0001 0011 1011 = $013B_{16}$

Convert the following hexadecimal numbers to binary:

A3E2 = 1010 0011 1110 0010

37B0 = 0011 0111 1011 0000

Add the following binary numbers:

```
1001 1000 0101 0111
0000 0001 0011 1011
-------------------
1001  1001 1001 0010
```

Add the following hexadecimal numbers:

```
A3E2
37B0
----
```
$DB92_{16}$

BINARY - DECIMAL

Convert the following decimal values to binary:

63 = 1111

27 = 11011

Convert the following binary values to decimal:

0111 0101 = 117

0011 1011 = 59