

Recitation

9/9/16

255

77 1 1110101
38 0 101011
19 1 1
8 9 1 100001
4 4 0 1001101
2 2 0 1001
1 1 1

256 128 64 32 16 8 4 2 1
1 1 1 1 1 1 1 1

1024 1000000000

512

256

$2^n = 10 \dots 0$
n 0's!

128

64

32

2) 100000

16

8

3) 11111

4

2

1

64-1=63

4) 10101010

128 64 32 16 8 4 2 1

170

131 10000011

65 ÷ 2

32 ÷ 2

16 ÷ 2 10000011

8 ÷ 2

4 ÷ 2

2 ÷ 2

1 ÷ 2

1) 1011

8 21

8

2

1

48

24

12

6

3

1

5) 1111010

64 32 16 8 4 2 1

122

6) 1011111

64 16 8 4 2 1

80 + 8 + 4 + 2 + 1

324

162

81

40

20

10

5

2

1

1000001

101000100

0

0

310

165

82

41

20

10

5

2

101001010

256 128 64 32 16 8 4 2 1

25

12

6

3

1

11001