

NYU Computer Science Bridge — Summer 2023

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**Question 1:**

$$\begin{aligned} 1. \quad 10011011_2 &= (1 * 2^7) + 0 + 0 + (1 * 2^4) + (1 * 2^3) + 0 + (1 * 2^1) + (1 * 2^0) \\ &= 128 + 16 + 8 + 2 + 1 \\ &= 155 \end{aligned}$$

Question 2:

Question 3:

Question 4:

Question 5:

Question 6:

Question 7:

Question 8:



Question 9:

Question 10:

Question 11:

Question 12: