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| **Skill 1.01 Exercise 1** |
| Following this link to the virtual Flippy-Do.  <https://hpluska.github.io/APCompSciPrinciples/labs/2021/DigitalInformation/BinaryNumbers/FlippyDo/> |
| Use the flippy do to figure out the decimal equivalent of the following binary numbers: 1110, 110011, 10001 |
| Use the Flippy-Do to figure out the binary equivalent of the following decimal numbers: 5, 7, 13 |

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| **Skill 1.02 Exercise 1** |
| Without the aid of the Flippy-Do, convert each of the following decimal numbers to binary, 11, 25, 53 |
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| **Skill 1.03 Exercise 1** |
| Indicate whether the binary number is even or odd |
| 100010000001  101010101010  100000000000  101010101111  111111111000 |

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| **Skill 1.03 Exercise 2** |
| Indicate the largest number that could be represented by each of the following bits. |
| (a) 5  (b) 4  (c) 6 |

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| **Skill 1.03 Exercise 3** |
| Without using the Flippy-Do, what are each of the following in decimal? |
| (a) 111  (b) 1111  (c) 11111  (d) 111111 |