

Exercise 1:

- a. $\mathcal{H} = \{0, 1\}^n$
- b. The distribution is uniform over all strings
- c. The string length
- d. "Hello, world" appears in the space 2^{20} times
- e. Every string is equally likely to appear (over all strings appearing within the 20-bit space)

Exercise 2: (10 points)

A function f is called **balanced** and **injective** if every input x has exactly one output y .

$$f(x) = (2x + 1) \bmod 2^n$$

$$f(x) = (2x) \bmod 2^n$$

Is $f(x) = (2x + 1) \bmod 2^n$ a balanced and injective function? Justify your answer using either the periodicity of f or the definition of balanced and injective functions.

- a. $f(x) = (2x + 1) \bmod 2^n$ is balanced and injective
- b. $f(x) = (2x) \bmod 2^n$ is balanced and injective
- c. $f(x) = (2x + 1) \bmod 2^n$ is not balanced and injective
- d. $f(x) = (2x) \bmod 2^n$ is not balanced and injective

Exercise 3: (10 points)

A function f is called **balanced** and **injective** if every input x has exactly one output y .

Is $f(x) = (2x + 1) \bmod 2^n$ a balanced and injective function? Justify your answer using either the periodicity of f or the definition of balanced and injective functions.

- a. $f(x) = (2x + 1) \bmod 2^n$ is balanced and injective
- b. $f(x) = (2x) \bmod 2^n$ is balanced and injective
- c. $f(x) = (2x + 1) \bmod 2^n$ is not balanced and injective
- d. $f(x) = (2x) \bmod 2^n$ is not balanced and injective

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L Reisser



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