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Question 1

1. The plot of the function $g(n) = f(n)/\epsilon$ is given below, where $\epsilon = 10^{-6}$.
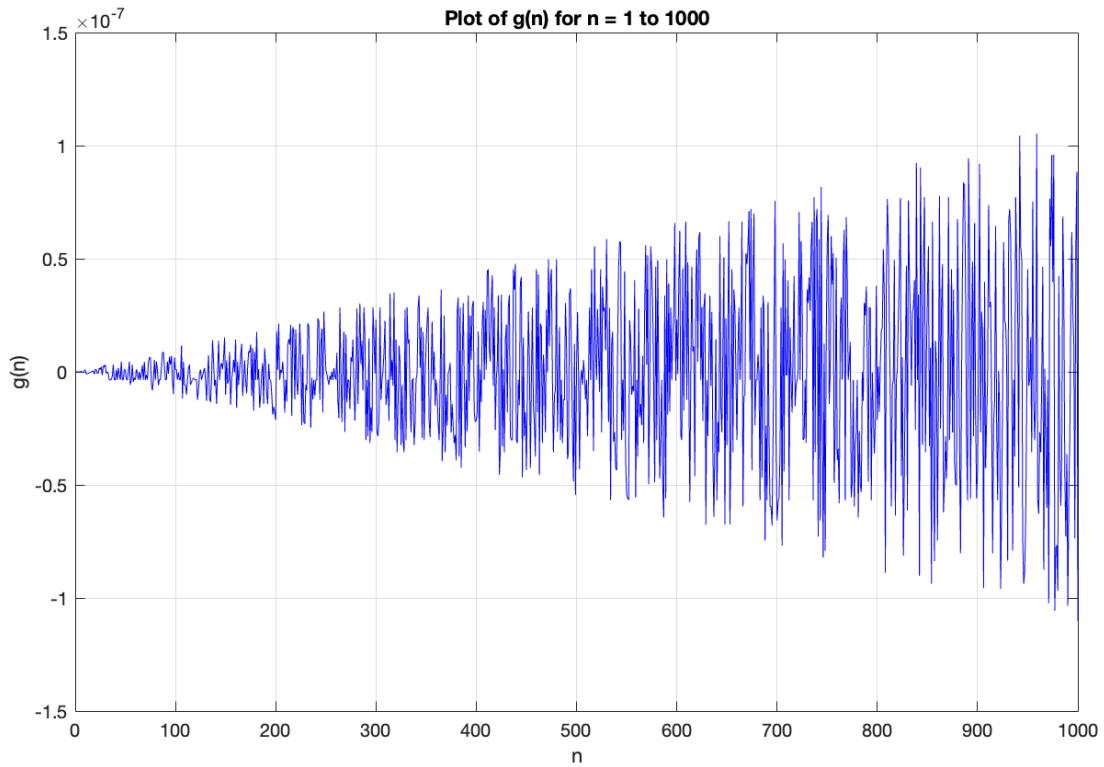

Figure 1: The plot of $g(n)$

2. The values of n where $g(n) = 0$ are $1, 2, 4, 8, 16, 32, 64, 128, 256, 512$. In other words, $g(n) = 0$ when n is a power of 2.

3.

4.

Question 2

1.

2.

3.

4.

5.