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A decorative border at the top of the slide featuring a symmetrical arrangement of tropical leaves in various colors including purple, teal, pink, and yellow, set against a light yellow background.

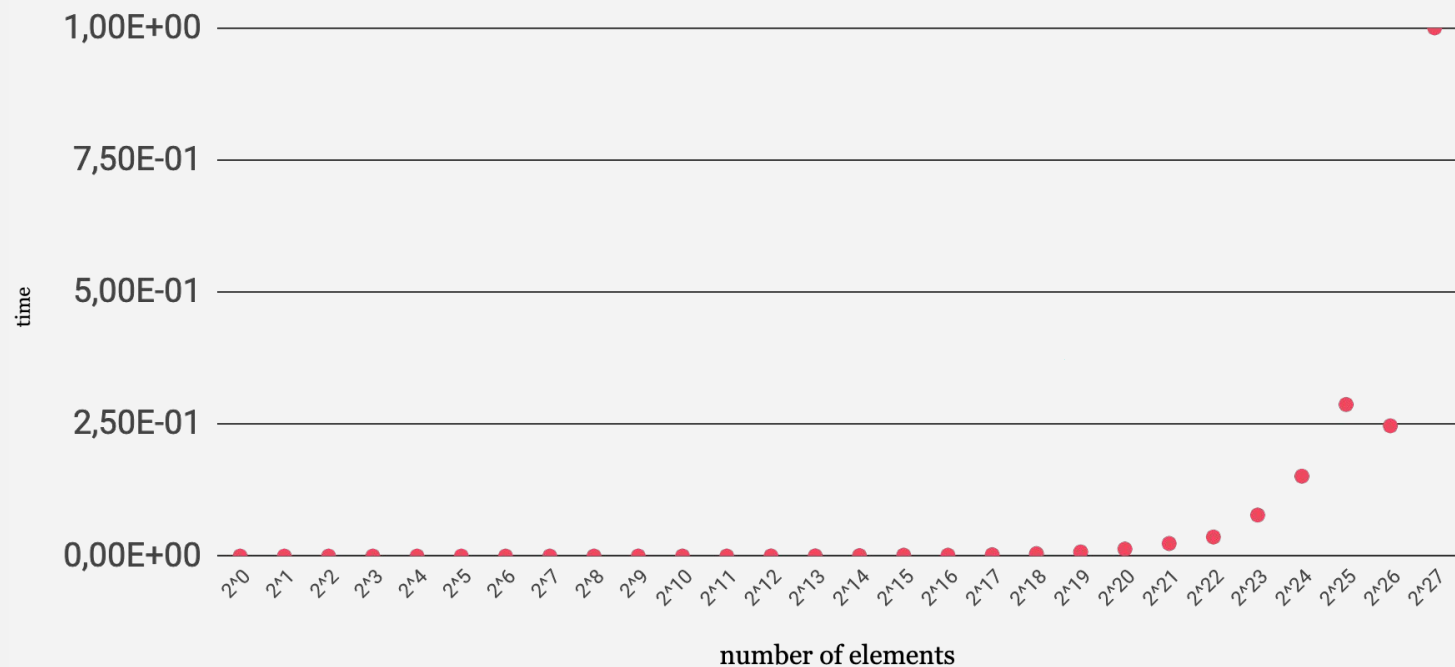
DESCRIPTION

This presentation compares the amount of time it takes to add 2^i unique items for all non-negative integer values of i to a list and the amount of time it takes to remove 2^i unique items from the front of the ArrayList for all non-negative integer values of i .

Both of these calculations were made until the until the computer ran out of memory or the time exceeded ten minutes.

Figure 1

Time It Takes to Add 2^i Elements



Time It Takes to Delete 2^i Elements

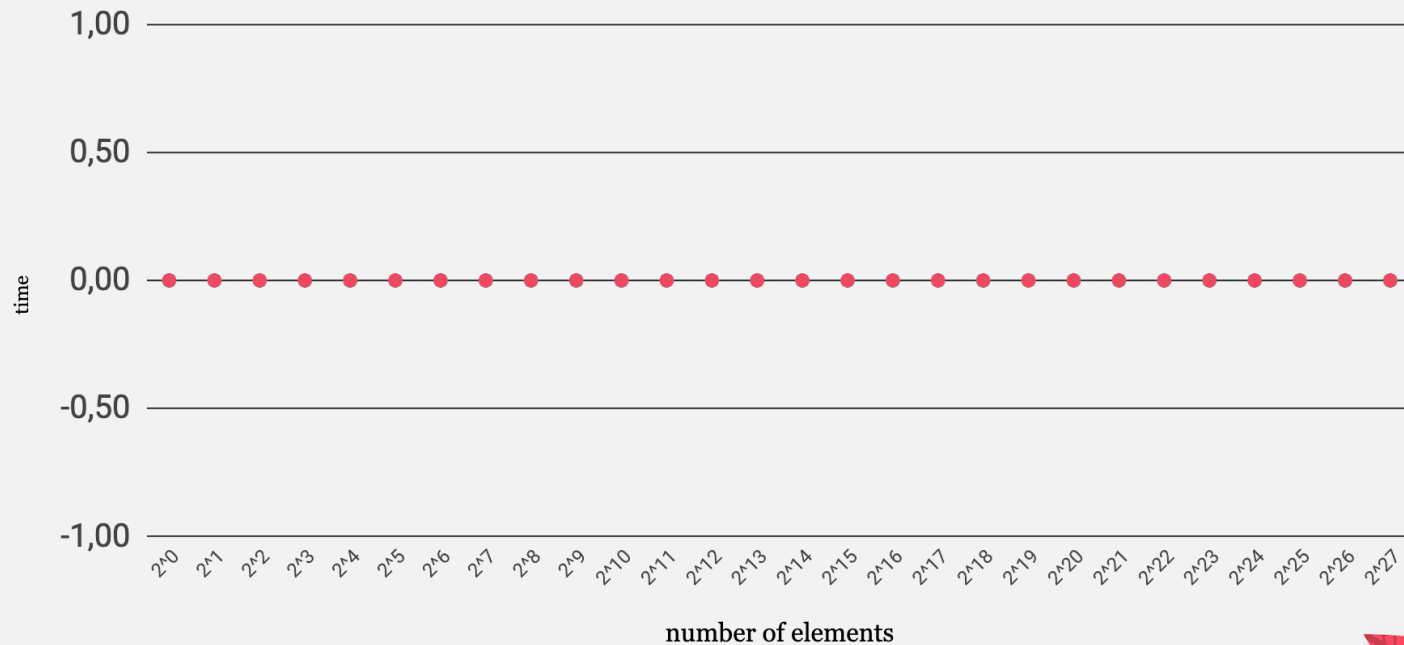


Figure 2



The Reasoning

As more values were being added on figure 1, the more time it took.

Data could not be collected for figure 2 because the computer memory could not keep up.



The background of the image is a vibrant, colorful pattern of various tropical leaves and foliage. The leaves are in shades of green, yellow, orange, red, and purple, creating a dense and lively border around the central text. Some leaves have detailed vein patterns, while others are solid colors. The overall style is modern and artistic.

THANKS

A decorative border of various tropical leaves in vibrant colors like red, orange, yellow, green, and purple surrounds the central white area. The leaves include Monstera, palm, and other exotic foliage.

CREDITS

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