

[illegible]

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The diagram illustrates the recursive decomposition of a 1000x1000 matrix into blocks of size 100x100. The top part shows the decomposition of the 1000x1000 matrix into a 1000x100 block (labeled 100) and a 1000x900 block (labeled 900). The 1000x900 block is further split into a 1000x100 block (labeled 100) and a 1000x800 block (labeled 800). This process continues, with the 1000x800 block splitting into 1000x100 (100) and 1000x700 (700), and so on, down to a 1000x100 block (100) and a 1000x0 block (0). The bottom part shows the decomposition of the 1000x1000 matrix into a 1000x100 block (labeled 100) and a 1000x900 block (labeled 900). The 1000x900 block is further split into a 1000x100 block (labeled 100) and a 1000x800 block (labeled 800). This process continues, with the 1000x800 block splitting into 1000x100 (100) and 1000x700 (700), and so on, down to a 1000x100 block (100) and a 1000x0 block (0). The diagram uses a color-coding scheme: green for the main blocks, grey for the sub-blocks, and white for the smallest sub-blocks.