

1. Write the terms of the sequence $\{b_k\}$ with initial index: m and final index n .

$$B_m, B_{m+1}, B_{m+2}, \dots, B_n$$

2. What are the first five terms of the geometric sequence defined below

$$a_0 = 9$$

$$a_n = 1/3 \cdot a_{n-1} \text{ for } n \geq 1$$

$$9, 3, 1, 1/3, 1/9$$

3. Write the output string from the finite state machine with outputs using the inputs we used in the video.

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