

Q: Consider the sequence whose n^{th} term is given by 2^n . Find the first 6 terms of this sequence.
Solution:

Variable	Description	Value
$x(n)$	general term of sequence	$2^n u(n)$

TABLE I
INPUT PARAMETERS

$$X(Z) = \frac{1}{1 - 2z^{-1}} \quad |z| > |2| \quad (1)$$

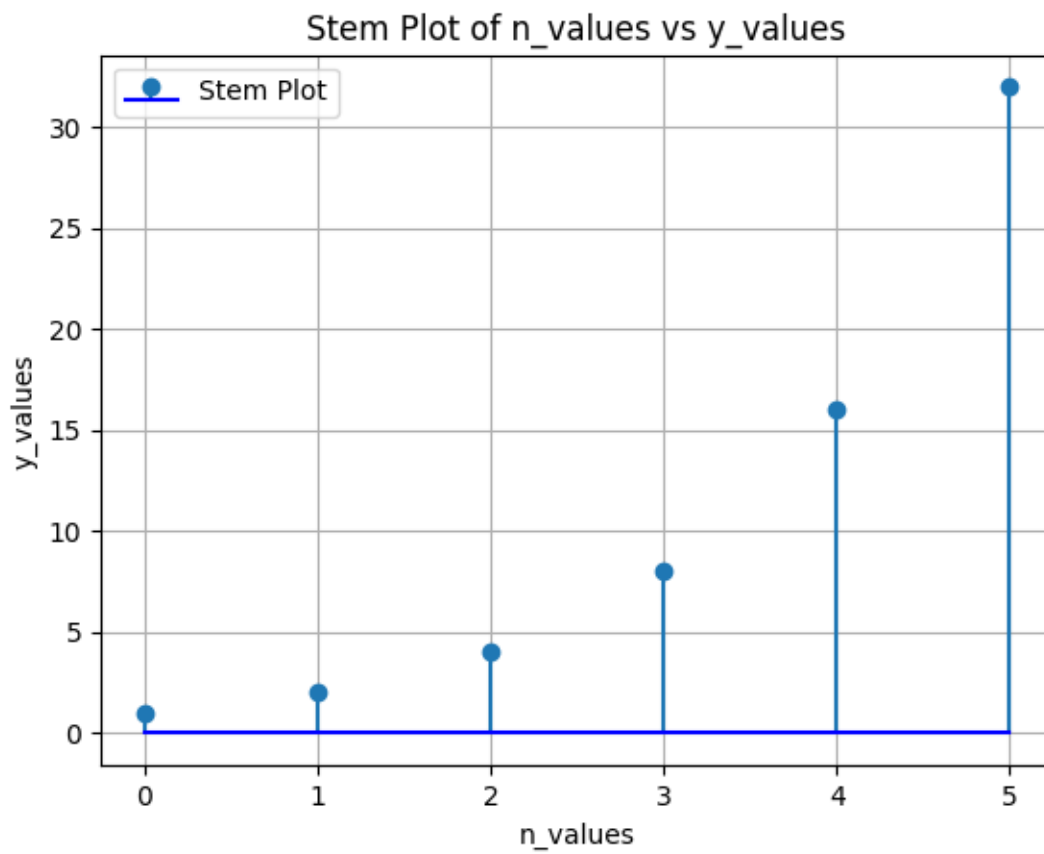


Fig. 1. Six terms of given sequence