ASSIGNMENT

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Ans.1

In the case, the length of languages is growing exponentially. Pumping lemma is known for generating set of lengths that contain an arithmetic subsequence.

Hence, this language cannot be regular.

Ans. 2

Let x= an bm  such that (n+m>=p), m=n+1 (m>n)

For choosing the value of **v** in **uvw,** we cannot have **v** as **‘a’,** because it will either generate strings out of pattern, or total **‘a’>’b’**

Also we can’t take v=some **‘b’** because with i=0, we will get number of **b’s** less than number of **a’s,** which is not possible in the given language.

Hence language is not regular since the above 2 statements contradict with the pumping lemma property uviw belongs to L for all i>=0