Question: Explain the significance of Azimuthal quantum numbers. Indicate the possible values of I and mI for n = 3.

Answer: The azimuthal number is a quantum number for an atomic orbital that determines its orbital angular momentum and describes the shape of the orbital. The azimuthal quantum number is the second of a set of quantum numbers which describe the unique quantum state of an electron.

The possible values of I and m_I for n = 3:

n	1	Sublevel	mı
		Designation	
3	0	3s	0
	1	Зр	-1, 0, 1
	2	3d	-2, -1, 0, 1 , 2

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