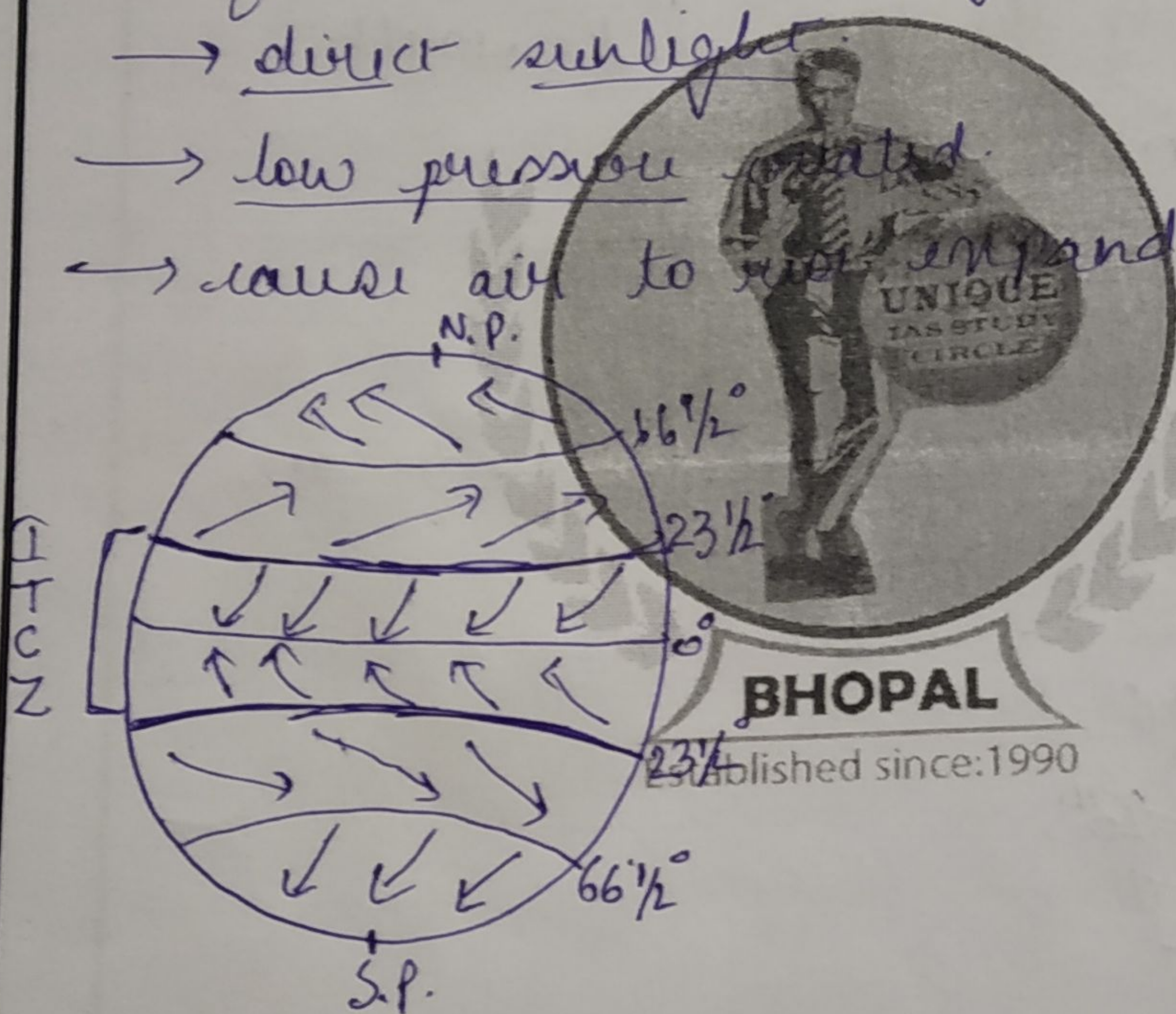


Q. what is ITCZ? what is its significance on seasonal changes on earth? (150)

A. ITCZ or Inter Tropical Convergence Zone is a low pressure convergence zone of the tropical easterlies near equator.

FORMATION.

- equator receives high insolation most of the time of the year.
- direct sunlight.
- low pressure created.
- cause air to rise, expand and cool.



Significance on season of earth.

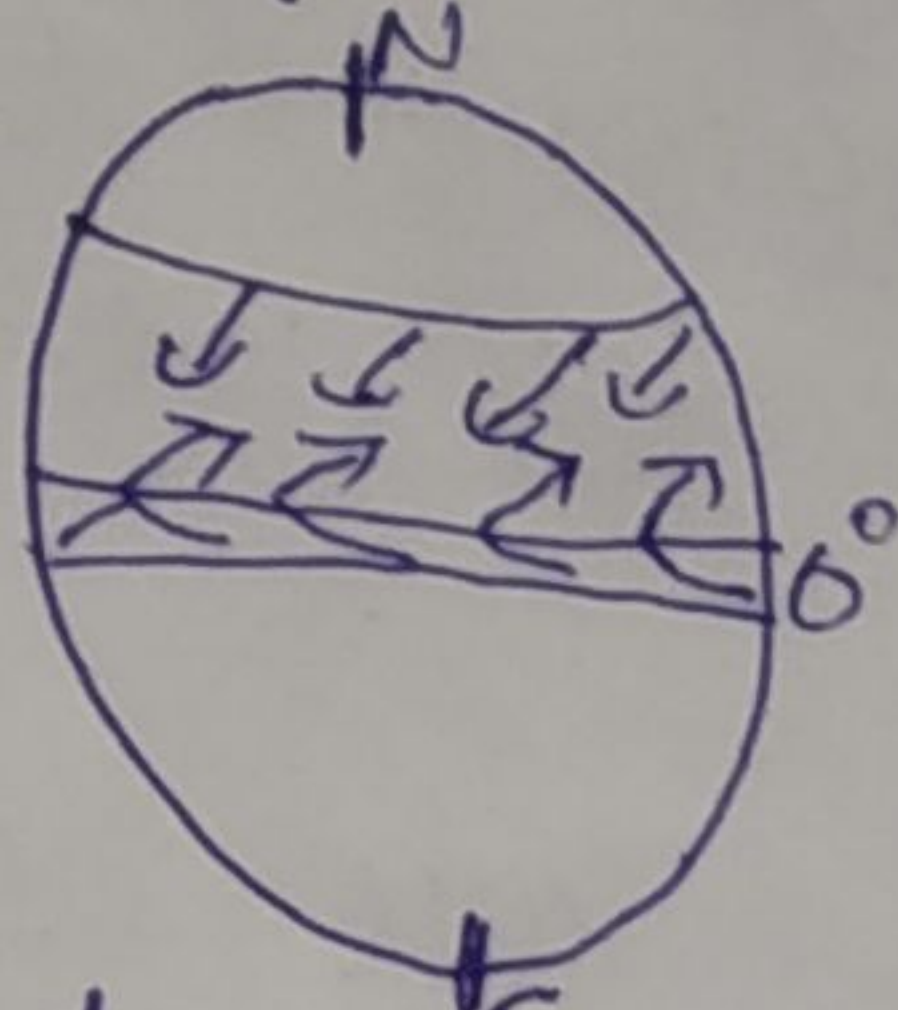
① At equator.

- causes rainfall.
- low pressure air rises, expands and cool.
- wet and dry climate.

② When shifts northwards.

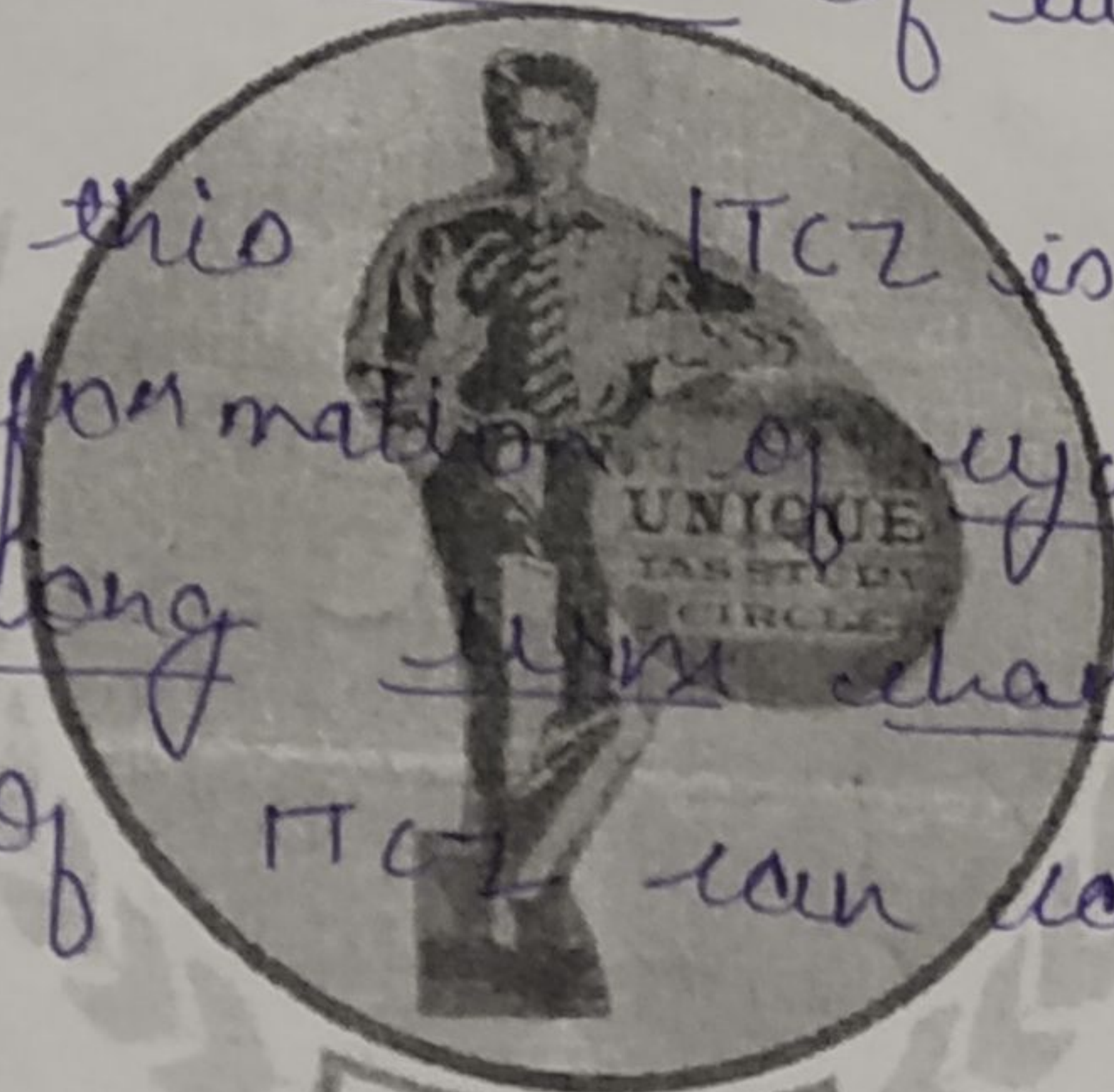
- causes summer in Northern Hemisphere.
- due to high insolation of sun in this region.

→ tropical easterlies become tropical southwest winds. as they cross equator.
→ this brings .



- ③ when shift to southwards.
- causes winter in Northern Hemisphere.
 - summer in southern Hemisphere.
 - change in direction of winds.

Along with this ITCZ is also responsible for formation of cyclones in the region. A long term change in the position of ITCZ can cause droughts and floods.



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Excellent!