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eYRC 2020-21: Nirikshak Bot (NB)

[6] Judging and Scoring System

[Last Updated on: **28th January 2021, 19:00 Hrs**]

The team's score is calculated based on the following formula:

$$\begin{aligned}
 \text{Score} = & \sum_1^N \left[(CI * 10) + (CP * 100) + (CD * 50) \right. \\
 & + (CM_4 * CT_4 * 100) + (CP * CM_x * CT_x * 100) \\
 & + (CI * CP * CM_4 * TB_4) + (CI * CD * CM_x * TB_x) \\
 & \left. - (HP * 10) \right] + [sum(CM) * 50]
 \end{aligned}$$

where,

Parameter	Full Form	Definition	Dependencies (if any)	Values
N	--	Total number of Balls dispensed by BD	--	max. 5
CM_4	Correct Maze on T4	Generation of Correct Maze on T4	--	0 or 1
CM_x	Correct Maze on T1, T2 or T3	Generation of Correct Maze on T1, T2 or T3 (based on Ball's location)	--	0 or 1



Welcome to NB theme!

Rulebook

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Parameter	Full Form	Definition	Dependencies (if any)	Values
$sum(CM)$	Correct Maze on all 4 Tables	Number of Platform Tables with Correct Maze generated	--	[0,4]
CI	Correct Identification of each ball	Identification of color and designated CB of each ball dispensed by BD	--	0 or 1
CP	Correct Pass of each ball	Passing of each ball to correct Platform Table from T4	--	0 or 1
CD	Correct Drop of each ball	Dropping of each ball in its designated CB	--	0 or 1
CT_4	Correct Traversal of each ball on T4	Traversing or Navigating each dispensed ball on T4 from the ENTRY to respective EXIT cell through correct path ONLY	CM_4	[0,1]
CT_x	Correct Traversal of each ball on T1, T2 or T3	Traversing or Navigating each ball on T1, T2 or T3 passed by T4 from the ENTRY to respective EXIT cell through correct path ONLY	CM_x, CP	[0,1]
TB_4	Time Bonus for each ball on T4	Time Bonus for each ball after successful traversal through T4	CI, CP, CM_4	[0,80]
TB_x	Time Bonus for each ball on T1, T2 or T3	Time Bonus for each ball after successful traversal through T1, T2 or T3	CI, CD, CM_x	[0,80]
HP	Hit Penalty for each ball	Number of collisions for each ball with any of the walls on all Platform Tables	--	[0,∞]