

Virtual

Opponent

- (b) For tie-break purposes, all unplayed games in which players are indirectly involved (results by forfeit of opponents) are considered to have been drawn.
- For tie-break purposes a player who has no opponent will be considered as having played against a virtual opponent who has the same number of points at the beginning of the round and who draws in all the following rounds.
- For the round itself the result by forfeit will be considered as a normal result.
This gives the formula:

- **$S_{von} = SPR + (1 - SfPR) + 0.5 * (n - R)$**
- where for player P who did not play in round R:

n = number of completed rounds

S_{von} = score of virtual opponent after round n

SPR = score of P before round R

SfPR = forfeit score of P in round R

- Example 1: in Round 3 of a nine-round tournament, Player P did not show up. Player P's score after 2 rounds is 1.5. The score of his virtual opponent is

$$S_{\text{von}} = 1.5 + (1 - 0) + 0.5 * (3 - 3) = 2.5 \text{ after round 3}$$

$$S_{\text{von}} = 1.5 + (1 - 0) + 0.5 * (9 - 3) = 5.5 \text{ at the end of the tournament}$$

Buchholz

- Example 2: in Round 6 of a nine-round tournament player P's opponent does not show up.

Player P's score after 5 rounds is 3.5. The score of his virtual opponent is:

$S_{\text{von}} = 3.5 + (1 - 1) + 0.5 * (9 - 6) = 3.5$ after round 6

$S_{\text{von}} = 3.5 + (1 - 1) + 0.5 * (9 - 6) = 5.0$ at the end of the tournament

Under 11 Nationals 2012

Rank	Name	Rtg	Club	Pts	BH.	BH.
1	Rakesh Kumar Jena	1961	DOI	9	81½	76½
2	Raghunandan K S	2019	KAR	9	79	73½
3	Saurabh Anand	1772	BIH	8½	69	64½
4	Sankalp Baliarsingh	1786	ODI	8	80½	75½
5	Raja Harshit	1687	MAH	8	79½	75
6	Siva Mahadevan	1819	TN	8	79½	74½
7	Mitrabha Guha	1925	WB	8	74½	69½

Example 1 – For a player who is absent – Rounak

- Rounak Pathak did not play Round 4 against Cheela
- Therefore, it is assumed that Rounak played against a virtual opponent instead of Cheela in Rd 4.
- We have to remove the score of Cheela and add the virtual opponent's score, calculated as below.

Under 11 Nationals 2012

Rank	Name	Rtg	Club	Pts	BH
41	Tarun V Kanth	1511	TN	6	70½
42	Munemane Ameya	1607	MAH	6	68½
43	Aneek Das	1570	WB	6	67½
44	Anant Prabhudesai	1634	GOA	6	66
45	Joy Pankaj Shah	1436	GUJ	6	65½
46	Rounak Pathak	1486	WB	6	64
47	Arrun S	1559	MAH	6	63½
48	Dipanjan Chowdhury	1556	WB	6	63
49	Pruthu Deshpande	1616	MAH	6	63
50	J Akshith Kumar	1572	AP	6	62½

Calculation of score of Rounak's Virtual Opponent

- Rounak is Player P and he did not play against Cheela in Rd 4. So, example 1.
- For Rd 4, $R = 4$
- SPR (Score of Rounak before Rd 4) = 2
- SfPR (Forfeit score of Rounak in Rd 4) = 0
- Number of rounds $n = 11$
- $S_{von} = SPR + (1 - SfPR) + 0.5 * (n - R)$
- $= 2.0 + (1 - 0.0) + 0.5 * (11 - 4) = 3.5 = 6.5$
- Buchholz score of the Virtual opponent of Rounak in Round 4 = 6.5

Example 1 – For a player who is absent – Rounak Pathak

Rd.	Name	Rtg	Pts	Res.	C
1	Porwal Anish	0	3½	1	b
2	Barath M	1732	7	1	w
3	Jayakumar S	1749	7½	0	b
4	Cheela Naga Sampath	1632	3½	-	b
5	Dubey Sanchay	0	4½	1	w
6	Munemane Ameya	1607	6	0	b
7	Viekash V K	1264	6½	½	w
8	Goyal Sarthak	0	4½	1	b
9	Gurung Rahul	1584	6½	½	w
10	Vatsal Singhania	1570	4½	1	b
11	Trinav Rattan	1611	7	0	w
	Buchholz of Rounak = 61 – 3.5 (Cheela) + 6.5 (Virtual) = 64		61		

Rakesh Kumar Jena 1

Rd.	Name	IRtg	Pts	Res.	C
1	Singh Amarjot	1425	0 + 5*	+	b
2	Srijit Paul	1596	6½	1	w
3	Subhayan Kundu	1696	7 - 0.5*	1	b
4	Jayakumar S	1749	7½	1	w
5	Iniyan P	1796	7½	1	b
6	Raghunandan K S	2019	9	1	w
7	Mitrabha Guha	1925	8	½	b
8	Siva Mahadevan	1819	8	1	w
9	Hirthickkesh Pr	1880	7½	1	b
10	Sankalp Baliarsingh	1786	8	0	b
11	Raja Harshit	1687	8	½	w
	Buchholz =81.5		81.5	8/10	
	* Add/subtract after VO calculation				

Calculation for Jena – Rd 1 – Singh Amarjot

- Rakesh Kumar Jena is Player P and his opponent Singh in Rd 1 did not show up. So, example 2.
- For Rd 1, $R = 1$
- SPR (Score of Jena before Rd1) = 0
- SfPR (Forfeit score of Jena in Rd 1) = 1
- Number of rounds $n = 11$
- $S_{von} = SPR + (1 - SfPR) + 0.5 * (n - R)$
- $= 0 + (1 - 1) + 0.5 * (11 - 1) = 5$
- Buchholz score of the Virtual opponent of RK Jena in Rd 1 = 5

Calculation for Jena – Rd 3- Kundu

- Subhayan Kundu, third round opponent of Jena got a walk over in Rd1. This is an indirect opponent and the result is counted as a draw for Kundu, against virtual opponent.
- Actual point of Kundu = 7 (including 1 pt from forfeit)
- Buchholz point of Kundu = 6.5.
- Buchholz for Jena at the end of the tournament =
- **$0 + 5 + 6\frac{1}{2} + 7 - 0.5 + 7\frac{1}{2} + 7\frac{1}{2} + 9 + 8 + 8 + 7\frac{1}{2} + 8 + 8 = 81.5$**
- Red colour score is correction after Virtual opponent calculation

Siva Mahadevan

Rd.		Name	IRtg	Pts	Res.	C
1		Ahaan Malhotra	1394	5	1	w
2		Aditya S S V	1565	6½	1	b
3		Ritam Nag	1619	8	1	w
4		Neelash Saha	1670	6½	½	b
5		Raja Harshit	1687	8	1	w
6		Hirthickkesh Pr	1880	7½	1	b
7	CM	Rathanvel V S	2033	7	1	w
8	FM	Rakesh Kumar Jena	1961	9 – 0.5	0	b
9	FM	Sankalp Baliarsingh	1786	8	0	w
10		Rahul Srivatshav P	1718	7	½	b
11		Jayakumar S	1749	7½	1	w
		Buchholz = 79.5		80 – 0.5		

VO Calculation for Siva Mahadevan

- Siva Mahadevan's opponent Jena had a walk over from Singh Amarjot in Round 1. He is an indirect opponent to Siva.
- Hence, in Rd 1, for Buchholz purpose, Jena has drawn against Singh.
- Jena's actual score is 9, including 1 point from Singh in rd 1. It is a draw for Virtual opponent and hence half point has to be deducted
- Thus, Buchholz score of Jena, with respect to Siva Mahadevan
 $= 9 - 0.5 = 8.5$
- Buchholz score of Siva = $5 + 6\frac{1}{2} + 8 + 6\frac{1}{2} + 8 + 7\frac{1}{2} + 7 + 9 - 0.5 + 8 + 7 + 7\frac{1}{2} = 79.5$

Raja Harshit

Rd.		Name	IRtg	Pts	Res.	C
1		Koshtu Varaha Prem	1342	4 + .5	1	w
2		Roneet Das	1440	5	1	b
3		Hirthickkesh Pr	1880	7½	½	w
4	CM	Nitish Belurkar	1857	7	1	w
5		Siva Mahadevan	1819	8	0	b
6		Ritam Nag	1619	8	1	b
7		Anand Nadar	1798	8	1	w
8		Raghunandan K S	2019	9	0	w
9		Arka Sengupta	0	6½	1	b
10		Iniyan P	1796	7½	1	w
11	FM	Rakesh Kumar Jena	1961	9 - 0.5	½	b
		Buchholz = 79.5		79.5 -0.5 +0.5		

Calculation for Raja Harshit

- Raja Harshit has two indirect opponents
- Round 1 opponent Koshtu forfeited his game against Parthib Bose in Round 5 and got 0 in this round
- For Raja Harshit's Buchholz, Koshtu has drawn this game. So, he gets half, instead of 0
- For Buchholz purpose, Koshtu's score with respect to Raja is $4 + 0.5 = 4.5$ and not 4
- As discussed in the case of Siva Mahadevan, Jena has played with Raja also (Round 11).
- Jena's score w.r.to Raja's Buchholz is $9 - 0.5 = 8.5$
- Buchholz of Raja = $4 + .5 + 5 + 7\frac{1}{2} + 7 + 8 + 8 + 8 + 9 + 6\frac{1}{2} + 7\frac{1}{2} + 9 - 0.5 = 79.5$

Koshtu (forfeit of indirect opponent to Harshit) 6th round is a draw, instead of 0 for Buchholz to Raja)

Rd.	Name	IRtg	Pts	Res.	C
1	Raja Harshit	1687	8	0	b
2	Sharma Dushyant	0	5	1/2	w
3	Porwal Anish	0	3 1/2	1/2	b
4	Sparsh Khandelwal	0	5	1	w
5	Rohith Svs	1544	4 1/2	0	b
6	Parthib Bose	0	4 1/2	- + .5	w
7	Sahil Mehta	0	2	1	w
8	Aditya S S V	1565	6 1/2	0	b
9	Namann D Jain	0	4	0	w
10	Anmol Bhagat	0	4	1/2	b
11	Sambarta Banerjee	0	4	1/2	w
	Koshtu's score for Harshit's Buchholz			4 +.5	