



Ranking Regulations

1st January 2025

Version History¹

Version	Changes	Status
01.01.2025	Change Ranking Matrix to increase weight of WC & SWT tournament categories	Proposed
10.06.2024	Define rules for FIR Race	Current
31.01.2024	Change of junior age groups to replace u13/u11 with u14/u12	Archived
1.1.2024	Introduction of Satellite events to rankings.	Archived
1.8.2023	Revert to 24 month Ranking Period, introduction of u11 class	Archived
1.9.2021	Extension of ranking period to 42 months	Archived
1.4.2021	Definition of the Ranking Nationality	Archived
1.12.2020	Temporary extension of the 24-month ranking period to reflect the absence of tournaments during the Coronavirus pandemic	Archived
1.1.2020	Changes to tournaments counting towards ranking points: <ul style="list-style-type: none"> - 10 (not 12) tournaments in total - 3 (not 4) SWT's 1 (not 2) WC's	Archived
2.2.2019	New version for FIR, 8001 Zurich, Switzerland	Archived

¹ Non-cosmetic changes only

INTRODUCTION

The FIR Racketlon World Ranking is made on the basis of these regulations. The aim is to maintain a ranking system which adequately measures the players' achievements.

1. FIR-RANKINGS CALCULATED

The following Singles rankings are maintained by FIR:

- a) Men's Singles
- b) Women's Singles
- c) Men's Seniors (+40 / +45 / +50 / +55 / +60 / +65 / +70)
- d) Women's Seniors (+40 / +45 / +50 / +55)
- e) Boys Juniors (Under 21 / Under 18 / Under 16 / Under 14 / Under 12)
- f) Girls Juniors (Under 21 / Under 18 / Under 16 / Under 14 / Under 12)

The following Doubles rankings are maintained by FIR:

- a) Men's Doubles
- b) Women's Doubles
- c) Mixed Doubles
- d) Men's Seniors Doubles
- e) Women's Seniors Doubles
- f) Mixed Seniors Doubles
- g) Boys Juniors Doubles
- h) Girls Juniors Doubles
- i) Juniors Mixed Doubles

2. RANKING RELEVANT EVENTS

A player with a currently active FIR Player Licence earns ranking-points when entering and playing in a FIR Tournament as defined in the FIR Tournament Regulations, except for Team Events (FIR National Team Event and FIR Champions League), which are not eligible for FIR Ranking Points.

A Ranking Period defines the timespan for which tournaments count towards a player's World Ranking. Customarily, this is a rolling period of the previous 24 calendar months².

The player's tournaments during the Ranking Period eligible for Ranking Points are

- two (2) best Challenger (CHA) and/or Satellite (SAT) tournaments and
- eight (8) best tournaments of the categories World Championships (WC), Super World Tour (SWT), International World Tour (IWT), Challenger and/or Satellite (but not including the two best Challengers/Satellites as above)

However, taking into consideration, that only the maximum number eligible for Ranking Points are:

- 1 World Championships (WC)
- 3 Super World Tour tournaments (SWT)

In case a player has played more than the above maximum number of WC/SWT tournaments within the Ranking Period, the best one (WC) resp. three tournaments (SWT) shall be taken into account.

² An exception was made from April 2020 to March 2024 to allow for the reduced number of tournaments held during the Covid pandemic

3. RANKING SPECIFICS

3.1. Points Matrix

The Ranking Points are rewarded according to the FIR Points Matrix (Annex A) as updated, amended and published by the Council of the FIR at the latest by January 1 of the relevant year.

3.2. Minimum Draws

FIR Ranking Points are only awarded if at least three players have taken part in the respective class.

3.3. Multiple Entries

If a player enters two classes in the same category (e.g. in Seniors' classes) only the class that has awarded more points will be taken into account for the ranking.

If a Senior player enters an open class (e.g. Women's B), then these ranking points will also count towards their Seniors ranking points. If a Senior player enters both an open class and a Seniors class, then only the best result will count.

A woman entering an Men's open event (e.g. Men's B), will be awarded only Men's ranking points for that result.

3.4. Ranking carry-overs

The year a player becomes 40 years of age he/she will also be ranked in the Seniors category. The ranking points earned in Men's or Women's classes will count, as is, for the Seniors ranking.

The year a player becomes 22 years of age he/she will be removed from the Junior's ranking and the points.

3.5. Removal from the FIR Ranking

A player is removed from the FIR Ranking if he has not played in a FIR World Tour event during the Ranking Period or on his request per E-mail to FIR.

4.6 Ranking Nationality

A player's Ranking Nationality is normally defined to be the same as the player's country of nationality, Players with multiple nationalities must choose which of the nationalities shall be used. This must be the same as the country a player chooses to represent at the FIR World Championships National Team Event.

For players whose country of nationality is not a FIR member, their place of residence shall be used as Ranking Nationality.

Players whose neither country of nationality nor country of residence is a FIR member are forbidden by FIR regulations³ from participating at FIR international Racketlon events and so are excluded from the FIR World Ranking.

The Ranking Nationality is used in determining a country's "racketlon size", and hence also the number of votes assigned to them at the FIR AGM, in accordance with the FIR statutes 7.10.4. A country member may request that players assigned to them by way of residence shall not be counted towards their racketlon size if the player does not participate in their Racketlon activities.

³ Players & Draws Regulations, section 2.3

4. FIR RACE

The FIR Race measures the most successful players on the FIR World Tour since 1st January of the current year. There are singles 3 categories, each of which is split between men and women. There is no FIR Race for doubles categories or team events.

- Open
- Seniors +40
- Juniors u21

The FIR Race and the FIR World Ranking use the same points matrix.

Unlike World Ranking, only classes played in the relevant category count towards the FIR Race. i.e. playing a Seniors or Juniors class will not result in any points being awarded for the Open class. Similarly, a senior or junior playing an open class will not receive any points for it in the Seniors or Juniors Race.

Seniors or Juniors playing multiple classes (e.g. +40 and +45, or u21 and u18) only receive FIR Race points for the best result of the two.

A maximum of 8 tournaments count towards the FIR Race.

No more than 2 Satellite class tournaments count towards the FIR Race.

5. PUBLICATION OF THE RANKINGS

The FIR Ranking is published on the 1st day of each month and shall indicate the players' Ranking Nationalities.

6. FINAL PROVISIONS

6.1. Coming into Force

The FIR Ranking Regulations were passed at the FIR Founding Assembly on 2nd February 2019 in Vienna and last modified by the FIR Council on 29th October 2024. They are valid from 1st January 2025.

6.2. Amendments and Modifications

The FIR Ranking Regulations can only be amended and modified by the FIR Council.

FIR – Federation of International Racketlon

Duncan Stahl Graham King

President Rules Officer

ANNEX A (POINTS MATRIX)

FIR Ranking Matrix, Open events										
Valid from 01.01.2025										
	World Championships					Super World Tour				
	A	B	C	D	E	A	B	C	D	E
1	4000	1600	640	256	102	2000	800	320	128	51
2	3400	1360	544	218	87	1700	680	272	109	44
3	3000	1200	480	192	77	1500	600	240	96	38
4	2800	1120	448	179	72	1400	560	224	90	36
5	2400	960	384	154	61	1200	480	192	77	31
6	2280	912	365	146	58	1140	456	182	73	29
7	2160	864	346	138	55	1080	432	173	69	28
8	2040	816	326	131	52	1020	408	163	65	26
9	1900	760	304	122	49	950	380	152	61	24
	1700	680	272	109	44	850	340	136	54	22
	1600	640	256	102	41	800	320	128	51	20
	1500	600	240	96	38	750	300	120	48	19
	1400	560	224	90	36	700	280	112	45	18
	1300	520	208	83	33	650	260	104	42	17
	1200	480	192	77	31	600	240	96	38	15
16	1100	440	176	70	28	550	220	88	35	14
17	1000	400	160	64	26	500	200	80	32	13
	940	376	150	60	24	470	188	75	30	12
	880	352	141	56	23	440	176	70	28	11
	820	328	131	52	21	410	164	66	26	10
	740	296	118	47	19	370	148	59	24	9
	680	272	109	44	17	340	136	54	22	9
	620	248	99	40	16	310	124	50	20	8
24	540	216	86	35	14	270	108	43	17	7
25	400	160	64	26	10	200	80	32	13	5
	380	152	61	24	10	190	76	30	12	5
	360	144	58	23	9	180	72	29	12	5
	340	136	54	22	9	170	68	27	11	4
	320	128	51	20	8	160	64	26	10	4
	300	120	48	19	8	150	60	24	10	4
	280	112	45	18	7	140	56	22	9	4
32	260	104	42	17	7	130	52	21	8	3
33	200	80	32	13	5	100	40	16	6	3
34	200	80	32	13	5	100	40	16	6	3
35	190	76	30	12	5	95	38	15	6	2
36	190	76	30	12	5	95	38	15	6	2
37	180	72	29	12	5	90	36	14	6	2
38	180	72	29	12	5	90	36	14	6	2
39	170	68	27	11	4	85	34	14	5	2
40	170	68	27	11	4	85	34	14	5	2
41	160	64	26	10	4	80	32	13	5	2
42	160	64	26	10	4	80	32	13	5	2
43	150	60	24	10	4	75	30	12	5	2
44	150	60	24	10	4	75	30	12	5	2
45	140	56	22	9	4	70	28	11	4	2
46	140	56	22	9	4	70	28	11	4	2
47	130	52	21	8	3	65	26	10	4	2
48	130	52	21	8	3	65	26	10	4	2
49+	120	48	19	8	3	60	24	10	4	2

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FIR Ranking Matrix, Open events															
Valid from 01.01.2025															
	Int. World Tour					Challenger					Satellite				
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
1	1000	400	160	64	26	500	200	80	32	13	250	100	40	16	6
2	850	340	136	54	22	425	170	68	27	11	213	85	34	14	5
3	750	300	120	48	19	375	150	60	24	10	188	75	30	12	5
4	700	280	112	45	18	350	140	56	22	9	175	70	28	11	4
5	600	240	96	38	15	300	120	48	19	8	150	60	24	10	4
6	570	228	91	36	15	285	114	46	18	7	143	57	23	9	4
7	540	216	86	35	14	270	108	43	17	7	135	54	22	9	3
8	510	204	82	33	13	255	102	41	16	7	128	51	20	8	3
9	475	190	76	30	12	238	95	38	15	6	119	48	19	8	3
	425	170	68	27	11	213	85	34	14	5	106	43	17	7	3
	400	160	64	26	10	200	80	32	13	5	100	40	16	6	3
	375	150	60	24	10	188	75	30	12	5	94	38	15	6	2
	350	140	56	22	9	175	70	28	11	4	88	35	14	6	2
	325	130	52	21	8	163	65	26	10	4	81	33	13	5	2
	300	120	48	19	8	150	60	24	10	4	75	30	12	5	2
16	275	110	44	18	7	138	55	22	9	4	69	28	11	4	2
17	250	100	40	16	6	125	50	20	8	3	63	25	10	4	2
	235	94	38	15	6	118	47	19	8	3	59	24	9	4	2
	220	88	35	14	6	110	44	18	7	3	55	22	9	4	1
	205	82	33	13	5	103	41	16	7	3	51	21	8	3	1
	185	74	30	12	5	93	37	15	6	2	46	19	7	3	1
	170	68	27	11	4	85	34	14	5	2	43	17	7	3	1
	155	62	25	10	4	78	31	12	5	2	39	16	6	2	1
24	135	54	22	9	3	68	27	11	4	2	34	14	5	2	1
25	100	40	16	6	3	50	20	8	3	1	25	10	4	2	1
	95	38	15	6	2	48	19	8	3	1	24	10	4	2	1
	90	36	14	6	2	45	18	7	3	1	23	9	4	1	1
	85	34	14	5	2	43	17	7	3	1	21	9	3	1	1
	80	32	13	5	2	40	16	6	3	1	20	8	3	1	1
	75	30	12	5	2	38	15	6	2	1	19	8	3	1	0
	70	28	11	4	2	35	14	6	2	1	18	7	3	1	0
32	65	26	10	4	2	33	13	5	2	1	16	7	3	1	0
33	50	20	8	3	1	25	10	4	2	1	13	5	2	1	0
34	50	20	8	3	1	25	10	4	2	1	13	5	2	1	0
35	48	19	8	3	1	24	10	4	2	1	12	5	2	1	0
36	48	19	8	3	1	24	10	4	2	1	12	5	2	1	0
37	45	18	7	3	1	23	9	4	1	1	11	5	2	1	0
38	45	18	7	3	1	23	9	4	1	1	11	5	2	1	0
39	43	17	7	3	1	21	9	3	1	1	11	4	2	1	0
40	43	17	7	3	1	21	9	3	1	1	11	4	2	1	0
41	40	16	6	3	1	20	8	3	1	1	10	4	2	1	0
42	40	16	6	3	1	20	8	3	1	1	10	4	2	1	0
43	38	15	6	2	1	19	8	3	1	0	9	4	2	1	0
44	38	15	6	2	1	19	8	3	1	0	9	4	2	1	0
45	35	14	6	2	1	18	7	3	1	0	9	4	1	1	0
46	35	14	6	2	1	18	7	3	1	0	9	4	1	1	0
47	33	13	5	2	1	16	7	3	1	0	8	3	1	1	0
48	33	13	5	2	1	16	7	3	1	0	8	3	1	1	0
49+	30	12	5	2	1	15	6	2	1	0	8	3	1	0	0

FIR Ranking Matrix, Seniors														
Valid from 01.01.2025														
	World Championships							Super World Tour						
	Sen 40	Sen 45	Sen 50	Sen 55	Sen 60	Sen 65	Sen 70	Sen 40	Sen 45	Sen 50	Sen 55	Sen 60	Sen 65	Sen 70
1	2133	1600	1200	900	675	506	380	1067	800	600	450	338	253	190
2	1813	1360	1020	765	574	430	323	907	680	510	383	287	215	161
3	1600	1200	900	675	506	380	285	800	600	450	338	253	190	142
4	1493	1120	840	630	473	354	266	747	560	420	315	236	177	133
5	1280	960	720	540	405	304	228	640	480	360	270	203	152	114
6	1216	912	684	513	385	289	216	608	456	342	257	192	144	108
7	1152	864	648	486	365	273	205	576	432	324	243	182	137	103
8	1088	816	612	459	344	258	194	544	408	306	230	172	129	97
9	1013	760	570	428	321	240	180	507	380	285	214	160	120	90
	907	680	510	383	287	215	161	453	340	255	191	143	108	81
	853	640	480	360	270	203	152	427	320	240	180	135	101	76
	800	600	450	338	253	190	142	400	300	225	169	127	95	71
	747	560	420	315	236	177	133	373	280	210	158	118	89	66
	693	520	390	293	219	165	123	347	260	195	146	110	82	62
	640	480	360	270	203	152	114	320	240	180	135	101	76	57
16	587	440	330	248	186	139	104	293	220	165	124	93	70	52
17	533	400	300	225	169	127	95	267	200	150	113	84	63	47
	501	376	282	212	159	119	89	251	188	141	106	79	59	45
	469	352	264	198	149	111	84	235	176	132	99	74	56	42
	437	328	246	185	138	104	78	219	164	123	92	69	52	39
	395	296	222	167	125	94	70	197	148	111	83	62	47	35
	363	272	204	153	115	86	65	181	136	102	77	57	43	32
	331	248	186	140	105	78	59	165	124	93	70	52	39	29
24	288	216	162	122	91	68	51	144	108	81	61	46	34	26
25	213	160	120	90	68	51	38	107	80	60	45	34	25	19
	203	152	114	86	64	48	36	101	76	57	43	32	24	18
	192	144	108	81	61	46	34	96	72	54	41	30	23	17
	181	136	102	77	57	43	32	91	68	51	38	29	22	16
	171	128	96	72	54	41	30	85	64	48	36	27	20	15
	160	120	90	68	51	38	28	80	60	45	34	25	19	14
	149	112	84	63	47	35	27	75	56	42	32	24	18	13
32	139	104	78	59	44	33	25	69	52	39	29	22	16	12
33+	107	80	60	45	34	25	19	53	40	30	23	17	13	9

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FIR Ranking Matrix, Seniors																											
Valid from 01.01.2025																											
	Int. World Tour								Challenger								Satellite										
	Sen 40	Sen 45	Sen 50	Sen 55	Sen 60	Sen 65	Sen 70		Sen 40	Sen 45	Sen 50	Sen 55	Sen 60	Sen 65	Sen 70		Sen 40	Sen 45	Sen 50	Sen 55	Sen 60	Sen 65	Sen 70				
1	533	400	300	225	169	127	96		267	200	150	113	84	63	47		133	100	75	56	42	32	24				
2	453	340	255	191	143	108	81		227	170	128	96	72	54	40		113	85	64	48	36	27	20				
3	400	300	225	169	127	95	71		200	150	113	84	63	47	36		100	75	56	42	32	24	18				
4	373	280	210	158	118	89	66		187	140	105	79	59	44	33		93	70	53	39	30	22	17				
5	320	240	180	135	101	76	57		160	120	90	68	51	38	28		80	60	45	34	25	19	14				
6	304	228	171	128	96	72	54		152	114	86	64	48	36	27		76	57	43	32	24	18	14				
7	288	216	162	122	91	68	51		144	108	81	61	46	34	26		72	54	41	30	23	17	13				
8	272	204	153	115	86	65	48		136	102	77	57	43	32	24		68	51	38	29	22	16	12				
9	253	190	143	107	80	60	45		127	95	71	53	40	30	23		63	48	36	27	20	15	11				
	227	170	128	96	72	54	40		113	85	64	48	36	27	20		57	43	32	24	18	13	10				
	213	160	120	90	68	51	38		107	80	60	45	34	25	19		53	40	30	23	17	13	9				
	200	150	113	84	63	47	36		100	75	56	42	32	24	18		50	38	28	21	16	12	9				
	187	140	105	79	59	44	33		93	70	53	39	30	22	17		47	35	26	20	15	11	8				
	173	130	98	73	55	41	31		87	65	49	37	27	21	15		43	33	24	18	14	10	8				
	160	120	90	68	51	38	28		80	60	45	34	25	19	14		40	30	23	17	13	9	7				
16	147	110	83	62	46	35	26		73	55	41	31	23	17	13		37	28	21	15	12	9	7				
17	133	100	75	56	42	32	24		67	50	38	28	21	16	12		33	25	19	14	11	8	6				
	125	94	71	53	40	30	22		63	47	35	26	20	15	11		31	24	18	13	10	7	6				
	117	88	66	50	37	28	21		59	44	33	25	19	14	10		29	22	17	12	9	7	5				
	109	82	62	46	35	26	19		55	41	31	23	17	13	10		27	21	15	12	9	6	5				
	99	74	56	42	31	23	18		49	37	28	21	16	12	9		25	19	14	10	8	6	4				
	91	68	51	38	29	22	16		45	34	26	19	14	11	8		23	17	13	10	7	5	4				
	83	62	47	35	26	20	15		41	31	23	17	13	10	7		21	16	12	9	7	5	4				
24	72	54	41	30	23	17	13		36	27	20	15	11	9	6		18	14	10	8	6	4	3				
25	53	40	30	23	17	13	9		27	20	15	11	8	6	5		13	10	8	6	4	3	2				
	51	38	29	21	16	12	9		25	19	14	11	8	6	5		13	10	7	5	4	3	2				
	48	36	27	20	15	11	9		24	18	14	10	8	6	4		12	9	7	5	4	3	2				
	45	34	26	19	14	11	8		23	17	13	10	7	5	4		11	9	6	5	4	3	2				
	43	32	24	18	14	10	8		21	16	12	9	7	5	4		11	8	6	5	3	3	2				
	40	30	23	17	13	9	7		20	15	11	8	6	5	4		10	8	6	4	3	2	2				
	37	28	21	16	12	9	7		19	14	11	8	6	4	3		9	7	5	4	3	2	2				
32	35	26	20	15	11	8	6		17	13	10	7	5	4	3		9	7	5	4	3	2	2				
33+	27	20	15	11	8	6	5		13	10	8	6	4	3	2		7	5	4	3	2	2	1				

FIR Ranking Matrix, Juniors										
Valid from 01.01.2025										
	World Championships					Super World Tour				
	Jun 21	Jun 18	Jun 16	Jun14	Jun 12	Jun 21	Jun 18	Jun 16	Jun14	Jun 12
1	1000	700	600	500	400	500	350	300	250	200
2	850	595	510	425	340	425	298	255	213	170
3	750	525	450	375	300	375	263	225	188	150
4	700	490	420	350	280	350	245	210	175	140
5	600	420	360	300	240	300	210	180	150	120
6	570	399	342	285	228	285	200	171	143	114
7	540	378	324	270	216	270	189	162	135	108
8	510	357	306	255	204	255	179	153	128	102
9	475	333	285	238	190	238	166	143	119	95
	425	298	255	213	170	213	149	128	106	85
	400	280	240	200	160	200	140	120	100	80
	375	263	225	188	150	188	131	113	94	75
	350	245	210	175	140	175	123	105	88	70
	325	228	195	163	130	163	114	98	81	65
	300	210	180	150	120	150	105	90	75	60
16	275	193	165	138	110	138	96	83	69	55
17	250	175	150	125	100	125	88	75	63	50
	235	165	141	118	94	118	82	71	59	47
	220	154	132	110	88	110	77	66	55	44
	205	144	123	103	82	103	72	62	51	41
	185	130	111	93	74	93	65	56	46	37
	170	119	102	85	68	85	60	51	43	34
	155	109	93	78	62	78	54	47	39	31
24	135	95	81	68	54	68	47	41	34	27
25	100	70	60	50	40	50	35	30	25	20
	95	67	57	48	38	48	33	29	24	19
	90	63	54	45	36	45	32	27	23	18
	85	60	51	43	34	43	30	26	21	17
	80	56	48	40	32	40	28	24	20	16
	75	53	45	38	30	38	26	23	19	15
	70	49	42	35	28	35	25	21	18	14
32	65	46	39	33	26	33	23	20	16	13
33+	50	35	30	25	20	25	18	15	13	10

FIR – Ranking Regulations
 1st January 2025

FIR Ranking Matrix, Juniors																	
Valid from 01.01.2025																	
	Int. World Tour						Challenger						Satellite				
	Jun 21	Jun 18	Jun 16	Jun14	Jun 12		Jun 21	Jun 18	Jun 16	Jun14	Jun 12		Jun 21	Jun 18	Jun 16	Jun14	Jun 12
1	250	175	150	125	100		125	88	75	63	50		63	44	38	31	25
2	213	149	128	106	85		106	74	64	53	43		53	37	32	27	21
3	188	131	113	94	75		94	66	56	47	38		47	33	28	23	19
4	175	123	105	88	70		88	61	53	44	35		44	31	26	22	18
5	150	105	90	75	60		75	53	45	38	30		38	26	23	19	15
6	143	100	86	71	57		71	50	43	36	29		36	25	21	18	14
7	135	95	81	68	54		68	47	41	34	27		34	24	20	17	14
8	128	89	77	64	51		64	45	38	32	26		32	22	19	16	13
9	119	83	71	59	48		59	42	36	30	24		30	21	18	15	12
	106	74	64	53	43		53	37	32	27	21		27	19	16	13	11
	100	70	60	50	40		50	35	30	25	20		25	18	15	13	10
	94	66	56	47	38		47	33	28	23	19		23	16	14	12	9
	88	61	53	44	35		44	31	26	22	18		22	15	13	11	9
	81	57	49	41	33		41	28	24	20	16		20	14	12	10	8
	75	53	45	38	30		38	26	23	19	15		19	13	11	9	8
16	69	48	41	34	28		34	24	21	17	14		17	12	10	9	7
17	63	44	38	31	25		31	22	19	16	13		16	11	9	8	6
	59	41	35	29	24		29	21	18	15	12		15	10	9	7	6
	55	39	33	28	22		28	19	17	14	11		14	10	8	7	6
	51	36	31	26	21		26	18	15	13	10		13	9	8	6	5
	46	32	28	23	19		23	16	14	12	9		12	8	7	6	5
	43	30	26	21	17		21	15	13	11	9		11	7	6	5	4
	39	27	23	19	16		19	14	12	10	8		10	7	6	5	4
24	34	24	20	17	14		17	12	10	8	7		8	6	5	4	3
25	25	18	15	13	10		13	9	8	6	5		6	4	4	3	3
	24	17	14	12	10		12	8	7	6	5		6	4	4	3	2
	23	16	14	11	9		11	8	7	6	5		6	4	3	3	2
	21	15	13	11	9		11	7	6	5	4		5	4	3	3	2
	20	14	12	10	8		10	7	6	5	4		5	4	3	3	2
	19	13	11	9	8		9	7	6	5	4		5	3	3	2	2
	18	12	11	9	7		9	6	5	4	4		4	3	3	2	2
32	16	11	10	8	7		8	6	5	4	3		4	3	2	2	2
33+	13	9	8	6	5		6	4	4	3	3		3	2	2	2	1