

TABLE

TABLE FROM JAMES BERNOULLI'S TR

(ARIS CONJECTANDI, Pars Secunda, continens Doctrinam de Permutationibus et Combinationibus). With

This Table is carried out to twenty terms, and particular attention is directed to the relation of the cyphers in solving problems

No.	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
1	1	0	0	0	0	0	0	0	0	0	0	0	0			
2	1	1	0	0	0	0	0	0	0	0	0	0	0			
3	1	2	1	0	0	0	0	0	0	0	0	0	0			
4	1	3	3	1	0	0	0	0	0	0	0	0	0			
5	1	4	6	4	1	0	0	0	0	0	0	0	0			
6	1	5	10	10	5	1	0	0	0	0	0	0	0			
7	1	6	15	20	15	6	1	0	0	0	0	0	0			
8	1	7	21	35	35	7	7	1	0	0	0	0	0			
9	1	8	28	56	70	56	28	8	1	0	0	0	0			
10	1	9	36	84	126	126	84	36	9	1	0	0	0			
11	1	10	45	120	210	252	210	120	45	10	1	0	0			
12	1	11	55	165	330	462	462	330	165	55	11	1	0			
13	1	12	66	220	495	792	924	792	495	220	66	12	1			
14	1	13	78	286	715	1287	1716	1716	1287	715	286	78	13	1		
15	1	14	91	364	1001	2002	3003	3432	3003	2002	1001	364	91	14	1	
16	1	15	105	455	1365	3003	5005	6435	6435	5005	3003	1365	455	105	15	1
17	1	16	120	560	1320	4368	8003	11440	12870	11440	8003	4368	1820	560	120	16
18	1	17	136	680	2380	6188	12376	19448	24310	24310	19448	12376	6188	2380	680	136
19	1	18	153	816	3060	8568	18564	31824	43758	48620	43758	31824	18564	8568	3060	816
20	1	19	171	969	3876	11628	27132	50388	75582	92378	92378	75582	50388	27132	11628	3876

The Squares from No. 1 to XII and 1 to 12 are taken from Bernoulli's *Ars Conjectandi, opus posthumum: accedunt 2ra* remaining squares from XIII to XX and 13 to 20 are added. Similar relations belong to the Coefficients of $(1-1)^n$ where $n=0, 1, 2, 3,$