

***** reading edge list *****

```
( 1, 19) ( 2, 19) ( 3, 19) ( 4, 19) ( 5, 19) ( 6, 19) ( 7, 19)
( 8, 19) ( 9, 19) (10, 19) (11, 19) (12, 19) (13, 19) (14, 19)
(15, 19) (16, 19) (17, 19) (18, 19) ( 1, 18) ( 2, 18) ( 3, 18)
( 4, 18) ( 5, 18) ( 6, 18) ( 7, 18) ( 8, 18) ( 9, 18) (10, 18)
(11, 18) (12, 18) (13, 18) (14, 18) (15, 18) (16, 18) (17, 18)
( 1, 17) ( 2, 17) ( 3, 17) ( 4, 17) ( 5, 17) ( 6, 17) ( 7, 17)
( 8, 17) ( 9, 17) (10, 17) (11, 17) (12, 17) (13, 17) (14, 17)
(15, 17) (16, 17) (16, 1) (16, 2) (16, 3) (16, 4) (16, 5)
(16, 6) (16, 7) (16, 8) (16, 9) (16,10) (16,11) (16,12)
(16,13) (16,14) (16,15) (15, 1) (15, 2) (15, 3) (15, 4)
(15, 5) (15, 6) (15, 7) (15, 8) (15, 9) (15,10) (15,11)
(15,12) (15,13) (15,14) (14, 1) (14, 2) (14, 3) (14, 4)
(14, 5) (14, 6) (14, 7) (14, 8) (14, 9) (14,10) (14,11)
(14,12) (14,13) (13, 1) (13, 2) (13, 3) (13, 4) (13, 5)
(13, 6) (13, 7) (13, 8) (13, 9) (13,10) (13,11) (13,12)
(12, 1) (12, 2) (12, 3) (12, 4) (12, 5) (12, 6) (12, 7)
(12, 8) (12, 9) (12,10) (12,11) (11, 1) (11, 2) (11, 3)
(11, 4) (11, 5) (11, 6) (11, 7) (11, 8) (11, 9) (11,10)
( 1, 2) ( 1, 3) ( 1, 4) ( 1, 5) ( 1, 6) ( 1, 7) ( 1, 9)
( 1, 8) ( 1,10) ( 2, 3) ( 2, 4) ( 2, 5) ( 2, 6) ( 2, 7)
( 2, 8) ( 2, 9) ( 2,10) ( 3, 4) ( 3, 5) ( 3, 6) ( 3, 7)
( 3, 8) ( 3, 9) ( 3,10) ( 4, 5) ( 4, 6) ( 4, 7) ( 4, 8)
( 4, 9) ( 4,10) ( 5, 6) ( 5, 7) ( 5, 8) ( 5, 9) ( 5,10)
( 6, 7) ( 6, 8) ( 6, 9) ( 6,10) ( 7, 8) ( 7, 9) ( 7,10)
( 8, 9) ( 8,10) ( 9,10)
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VERTICES = 19 EDGES = 171

	355687428096000 $x^1 y^0$
1223405590579200 $x^2 y^0$	1821602444624640 $x^3 y^0$
1583313975727488 $x^4 y^0$	909299905844112 $x^5 y^0$
369012649234384 $x^6 y^0$	110228466184200 $x^7 y^0$
24871845297936 $x^8 y^0$	4308105301929 $x^9 y^0$
577924894833 $x^{10} y^0$	60202693980 $x^{11} y^0$
4853222764 $x^{12} y^0$	299650806 $x^{13} y^0$
13896582 $x^{14} y^0$	468180 $x^{15} y^0$
10812 $x^{16} y^0$	153 $x^{17} y^0$
1 $x^{18} y^0$	

355687428096000 $x^0 y^1$	4915700387942400 $x^1 y^1$
12943734493835520 $x^2 y^1$	16045618705132032 $x^3 y^1$
11822600131625808 $x^4 y^1$	5764387092464256 $x^5 y^1$
1974423087033528 $x^6 y^1$	492444375678528 $x^7 y^1$
91371281213433 $x^8 y^1$	12754203304128 $x^9 y^1$
1342854459804 $x^{10} y^1$	106017158208 $x^{11} y^1$
6175931190 $x^{12} y^1$	257428416 $x^{13} y^1$
7259748 $x^{14} y^1$	124032 $x^{15} y^1$
969 $x^{16} y^1$	
4047982225459200 $x^0 y^2$	31672736680331520 $x^1 y^2$
67411730667391488 $x^2 y^2$	70643969942680224 $x^3 y^2$
44419827939563616 $x^4 y^2$	18449295116288712 $x^5 y^2$
5341816521283320 $x^6 y^2$	1112609061122988 $x^7 y^2$
169555228182912 $x^8 y^2$	19017742094208 $x^9 y^2$
1563104489232 $x^{10} y^2$	92647911720 $x^{11} y^2$
3834728352 $x^{12} y^2$	104458200 $x^{13} y^2$
1666680 $x^{14} y^2$	11628 $x^{15} y^2$
23375181266000640 $x^0 y^3$	131965846487442432 $x^1 y^3$
234126092311987104 $x^2 y^3$	209958762467597888 $x^3 y^3$
113533290703764984 $x^4 y^3$	40433532517284816 $x^5 y^3$
9965780246866444 $x^6 y^3$	1748625418240272 $x^7 y^3$
221558855158212 $x^8 y^3$	20342698870780 $x^9 y^3$
1345273285356 $x^{10} y^3$	63073027836 $x^{11} y^3$
2041637780 $x^{12} y^3$	43818180 $x^{13} y^3$
581400 $x^{14} y^3$	3876 $x^{15} y^3$
91867666620290688 $x^0 y^4$	409101917576088528 $x^1 y^4$
617468328452985936 $x^2 y^4$	478943218058402424 $x^3 y^4$
224619763777742424 $x^4 y^4$	69189640060140054 $x^5 y^4$
14665914637271898 $x^6 y^4$	2196433949356218 $x^7 y^4$
235474727978490 $x^8 y^4$	18121422286110 $x^9 y^4$
994216285062 $x^{10} y^4$	38164047558 $x^{11} y^4$
984959430 $x^{12} y^4$	15600900 $x^{13} y^4$
116280 $x^{14} y^4$	
277801393666439952 $x^0 y^5$	1021182556031434176 $x^1 y^5$
1331288616712421832 $x^2 y^5$	902014766958298656 $x^3 y^5$
370239300766391238 $x^4 y^5$	99627604690205592 $x^5 y^5$
18381916966479066 $x^6 y^5$	2386033001894256 $x^7 y^5$
220762023684774 $x^8 y^5$	14607740899752 $x^9 y^5$
687100820406 $x^{10} y^5$	22565358816 $x^{11} y^5$
498387708 $x^{12} y^5$	6837264 $x^{13} y^5$
46512 $x^{14} y^5$	

692125688305748224 $x^0 y^6$	2159347067829655608 $x^1 y^6$
2461566517847045640 $x^2 y^6$	1470618356334831340 $x^3 y^6$
533272934637223872 $x^4 y^6$	126706595300407122 $x^5 y^6$
20615143900681330 $x^6 y^6$	2356848839285226 $x^7 y^6$
191975967115218 $x^8 y^6$	11188803868242 $x^9 y^6$
463825596234 $x^{10} y^6$	13384690410 $x^{11} y^6$
254837310 $x^{12} y^6$	2794596 $x^{13} y^6$
11628 $x^{14} y^6$	
1484423057379573000 $x^0 y^7$	4006811705518714128 $x^1 y^7$
4036265199476249772 $x^2 y^7$	2145473822241036144 $x^3 y^7$
693827046610257066 $x^4 y^7$	147145616975526312 $x^5 y^7$
21381934339879542 $x^6 y^7$	2185373487906180 $x^7 y^7$
159341449901634 $x^8 y^7$	8316252037236 $x^9 y^7$
307480450134 $x^{10} y^7$	7780663020 $x^{11} y^7$
123400212 $x^{12} y^7$	949620 $x^{13} y^7$
2825443504441960536 $x^0 y^8$	6694387320208652409 $x^1 y^8$
6015074992275074349 $x^2 y^8$	2869299102868854006 $x^3 y^8$
835179500758522062 $x^4 y^8$	159750915570512409 $x^5 y^8$
20979903683476881 $x^6 y^8$	1942411303445184 $x^7 y^8$
128566726583724 $x^8 y^8$	6095753552460 $x^9 y^8$
204149652564 $x^{10} y^8$	4631765736 $x^{11} y^8$
64244700 $x^{12} y^8$	406980 $x^{13} y^8$
4880453576245272153 $x^0 y^9$	10268367603249554952 $x^1 y^9$
8299582677554761086 $x^2 y^9$	3582002746601636032 $x^3 y^9$
946701793359210317 $x^4 y^9$	164916984810215352 $x^5 y^9$
19784728784924532 $x^6 y^9$	1678312042846296 $x^7 y^9$
102006110906700 $x^8 y^9$	4439471439260 $x^9 y^9$
135536447332 $x^{10} y^9$	2739897888 $x^{11} y^9$
31744440 $x^{12} y^9$	135660 $x^{13} y^9$
7780886371600806264 $x^0 y^{10}$	14679291292965235122 $x^1 y^{10}$
10755952071620796378 $x^2 y^{10}$	4232373198023049092 $x^3 y^{10}$
1024023434473553800 $x^4 y^{10}$	163904808669772170 $x^5 y^{10}$
18130612179525846 $x^6 y^{10}$	1422316933657620 $x^7 y^{10}$
80036181695184 $x^8 y^{10}$	3214031819284 $x^9 y^{10}$
89313452228 $x^{10} y^{10}$	1583342124 $x^{11} y^{10}$
14461356 $x^{12} y^{10}$	27132 $x^{13} y^{10}$

11601557445437067822 $x^0 y^{11}$
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 1067648106700906458 $x^4 y^{11}$
 16269539575104816 $x^6 y^{11}$
 62318792992092 $x^8 y^{11}$
 58578367848 $x^{10} y^{11}$
 6348888 $x^{12} y^{11}$

16348022665150330024 $x^0 y^{12}$
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 1081159431294365878 $x^4 y^{12}$
 14373499028208957 $x^6 y^{12}$
 48264636276792 $x^8 y^{12}$
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 2821728 $x^{12} y^{12}$

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 37202529960882 $x^8 y^{13}$
 24660491856 $x^{10} y^{13}$
 1058148 $x^{12} y^{13}$

28295890024466203488 $x^0 y^{14}$
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 1038607445842706862 $x^4 y^{14}$
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 993184677854623092 $x^4 y^{15}$
 9320742274961832 $x^6 y^{15}$
 21748649906412 $x^8 y^{15}$
 9705786948 $x^{10} y^{15}$
 50388 $x^{12} y^{15}$

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 158254992133502628 $x^5 y^{11}$
 1189070888913492 $x^7 y^{11}$
 2316923934468 $x^9 y^{11}$
 905069256 $x^{11} y^{11}$

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 1189666978500 $x^9 y^{13}$
 279880146 $x^{11} y^{13}$

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 5927896260 $x^{10} y^{16}$

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 6745361275388736 $x^6 y^{17}$
 12396968709840 $x^8 y^{17}$
 3538446912 $x^{10} y^{17}$

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 5691543483658032 $x^6 y^{18}$
 9248576817480 $x^8 y^{18}$
 2045987944 $x^{10} y^{18}$

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 4777200099035364 $x^6 y^{19}$
 6835316116200 $x^8 y^{19}$
 1143270128 $x^{10} y^{19}$

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 3988459416377436 $x^6 y^{20}$
 5001116931096 $x^8 y^{20}$
 616900284 $x^{10} y^{20}$

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 3311718770011080 $x^6 y^{21}$
 3619945093050 $x^8 y^{21}$
 320366904 $x^{10} y^{21}$

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 34918884 $x^{11} y^{16}$

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 282834646380 $x^9 y^{17}$
 15872220 $x^{11} y^{17}$

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 174630140632662 $x^7 y^{20}$
 83555069598 $x^9 y^{20}$
 529074 $x^{11} y^{20}$

65415498528236432336 $x^1 y^{21}$
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 53766213072 $x^9 y^{21}$
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 500969815746076560 $x^4 y^{23}$
 2243760277101408 $x^6 y^{23}$
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 73163376 $x^{10} y^{23}$

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 11085360 $x^{10} y^{25}$

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 4150358784 $x^9 y^{26}$

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 2270651240 $x^9 y^{27}$

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 271878888233033920 $x^4 y^{28}$
 755949684225450 $x^6 y^{28}$
 258884726100 $x^8 y^{28}$
 92378 $x^{10} y^{28}$

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 1192138090 $x^9 y^{28}$

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 594452430 $x^9 y^{29}$

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 277411134 $x^9 y^{30}$

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 10164379922030334 $x^5 y^{31}$
 7195775441712 $x^7 y^{31}$
 118890486 $x^9 y^{31}$

94166190241074588696 $x^0 y^{32}$
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 38647721970 $x^8 y^{32}$

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 210774108504960 $x^6 y^{33}$
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 15242370 $x^9 y^{33}$

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 12798677970 $x^8 y^{34}$

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75582 $x^8 y^{45}$	
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$$14726730568716 x^0 y^{119}$$

$$2736 x^2 y^{119}$$

$$9825210132060 x^0 y^{120}$$

$$171 x^2 y^{120}$$

$$6488521666479 x^0 y^{121}$$

$$4239383016537 x^0 y^{122}$$

$$2738913438264 x^0 y^{123}$$

$$1748709004095 x^0 y^{124}$$

$$1102660594470 x^0 y^{125}$$

$$686193508561 x^0 y^{126}$$

$$421112282308 x^0 y^{127}$$

$$254641377231 x^0 y^{128}$$

$$151577904474 x^0 y^{129}$$

$$88730460807 x^0 y^{130}$$

$$51020617464 x^0 y^{131}$$

$$28781029665 x^0 y^{132}$$

$$15905347050 x^0 y^{133}$$

$$8597493351 x^0 y^{134}$$

$$4537567308 x^0 y^{135}$$

$$2333606201 x^0 y^{136}$$

$$1166803110 x^0 y^{137}$$

$$565722720 x^0 y^{138}$$

$$265182525 x^0 y^{139}$$

$$22169256012 x^1 y^{119}$$

$$11420527239 x^1 y^{120}$$

$$5710263705 x^1 y^{121}$$

$$2763030825 x^1 y^{122}$$

$$1289414385 x^1 y^{123}$$

$$578013345 x^1 y^{124}$$

$$247720005 x^1 y^{125}$$

$$100922965 x^1 y^{126}$$

$$38816525 x^1 y^{127}$$

$$13973949 x^1 y^{128}$$

$$4657983 x^1 y^{129}$$

$$1417647 x^1 y^{130}$$

$$386631 x^1 y^{131}$$

$$92055 x^1 y^{132}$$

$$18411 x^1 y^{133}$$

$$2907 x^1 y^{134}$$

$$323 x^1 y^{135}$$

$$19 x^1 y^{136}$$

119759850 $x^0 y^{140}$

51895935 $x^0 y^{141}$

21474180 $x^0 y^{142}$

8436285 $x^0 y^{143}$

3124550 $x^0 y^{144}$

1081575 $x^0 y^{145}$

346104 $x^0 y^{146}$

100947 $x^0 y^{147}$

26334 $x^0 y^{148}$

5985 $x^0 y^{149}$

1140 $x^0 y^{150}$

171 $x^0 y^{151}$

18 $x^0 y^{152}$

1 $x^0 y^{153}$

Number of spanning trees: st2=54803 st = 86857784802185939 or 5480386857784802185939

TEST: tutteMat[ONE][ZERO]==tutteMat[ZERO][ONE] passed

TEST: tutteMat[TWO][ZERO]-tutteMat[ONE][ONE]+tutteMat[ZERO][TWO]==tutteMat[ONE][ZERO] passed

TEST: tutteMat[3][0]-tutteMat[TWO][ONE]+tutteMat[ONE][TWO]-tutteMat[ZERO][THREE]==tutteMat[0][3] passed

threshold	graphs	matches	ratio
19	1	0	0.00
18	18	0	0.00
17	33	426	12.91
16	53	1003	18.92
15	71	1843	25.96
14	87	2755	31.67
13	101	3658	36.22
12	113	4483	39.67
11	123	5173	42.06
10	131	5683	43.38
9	137	5980	43.65
8	132	6052	45.85
total	1000	37056	37.06

130.22u 0.25s 4:09.58 52.2%