

	A B C D	
Constitution of	0000	m _o
Specification of	0001	m ₁
a voting system	0010	m ₂
	0011	m ₃
	0100	m ₄
	0101	m ₅
	0110	m ₆
	0111	m ₇
	1000	m ₈
	1001	m ₉
	1010	m ₁₀
	1011	m ₁₁
	1100	m ₁₂
	1101	m ₁₃
	1110	m ₁₄
	1111	m ₁₅
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	ABCD		
Specification of	0000	m ₀	0
Specification of	0001	m ₁	0
a voting system	0010	m ₂	0
	0011	m ₃	0
	0100	m ₄	0
	0101	m ₅	0
Output = $\Sigma m(7.9.10.11.12.13.14.15)$	0110	m ₆	0
- Output - 2 m(7,5,10,11,12,15,14,15	0111	m ₇	1
	1000	m ₈	0
Output = Π M(0.1.2.3.4.5.6.8)	1001	m ₉	1
	1010	m ₁₀	1
	1011	m ₁₁	1
	1100	m ₁₂	1
	1101	m ₁₃	1
	1110	m ₁₄	1
	1111	m ₁₅	1
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$$f1(A,B,C,D) = \\ = \Sigma(0,1,2,3,4,5,10) = /A./C+/A./B+/B.C./D = \\ = \Pi(6,7,8,9,11,12,13,14,15) = (/A+C).(/A+/D).(/B+/C)= \\ = (/A + /A./D + /A.C + C./D).(/B+/C) = \\ = /A./B + /A./C + /A./B./D + /A./C./D + /A./B.C + /A.C./C + (1) + /B.C./D + C./C./D = \\ = /A./C+/A./B+/B.C./D$$
(1) A + A.B = A



	A B C D	Maj Tie
Constitution of the	0000 m	0
Specification of the	0001 m	1
new voting system	0010 m	2
	0011 m	3
	0100 m	4
	0101 m	5
	0110 m _e	6
	0111 m	7
	1000 m _s	8
	1001 m _g	9
	1010 m	10
	1011 m	11
	1100 m	12
	1101 m	13
	1110 m	14
	1111 m	15
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	ABCD	Maj Tie	
Specification of the new voting system	0000	m ₀	0
	0001	m ₁	0
	0010	m ₂	0
	0011	m ₃	1
Tie = Σ m(3,5,6,9,10,12)	0100	m ₄	0
	0101	m ₅	1
	0110	m ₆	1
	0111	m ₇	0
	1000	m ₈	0
	1001	m ₉	1
	1010	m ₁₀	1
	1011	m ₁₁	0
	1100	m ₁₂	1
	1101	m ₁₃	0
	1110	m ₁₄	0
	1111	m ₁₅	0
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	A B C D		Maj Tie	
Spacification of the	0000 m	0	0	0
specification of the	0001 m	1	0	0
new voting system	0010 m	2	0	0
	0011 m	3	Х	1
Introducing don't cares	0100 m	4	0	0
	0101 m	5	Х	1
	0110 m	6	Х	1
	0111 m	7	1	0
Tie = Σ m(3,5,6,9,10,12)	1000 m	8	0	0
	1001 m	9	Х	1
	1010 m	10	Х	1
Maj = Σ m(7,11,13,14,15)+d(3,5,6,9,10,12)	1011 m	11	1	0
	1100 m	12	Х	1
	1101 m	13	1	0
	1110 m	14	1	0
	1111 m	15	1	0
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_	A B C D	Maj Tie		
Spacification of the	0000	m ₀	0	0
specification of the	0001	m_1	0	0
new voting system	0010	m ₂	0	0
	0011	m ₃	Х	1
Introducing don't cares	0100	m ₄	0	0
	0101	m ₅	Х	1
	0110	m ₆	Х	1
	0111	m ₇	1	0
$Tio = \sum m/2 = 6 = 0.10(12) =$	1000	m ₈	0	0
$\Pi = 2 \Pi (3, 3, 0, 9, 10, 12) =$	1001	m ₉	Х	1
= Π M(0,1,2,4,7,8,11,13,14,15)	1010	m ₁₀	Х	1
$M_{2}: = \sum_{i=1}^{n} (7.11.12.14.15) \cdot d(2.5.5.0.10.12)$	1011	m ₁₁	1	0
V[a] = 2 m(7,11,13,14,15) + a(3,5,6,9,10,12) =	1100	m ₁₂	Х	1
= Π M(0,1,2,4,8)+d(3,5,6,9,10,12)	1101	m ₁₃	1	0
	1110	m ₁₄	1	0
	1111	m ₁₅	1	0
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