CSCAO) Exer

16

CACE closes not and with T, it must appear at the end There are 12 positions to consider

Ist way: Place 2 T first, followed by 3 ATS. then 2 AGCTS.

IAGT, I GGT, I A GAT, I AGGCT.

c(1212) · c(10,3) · c(7,2) · c(5,1) · c(4,1) · c(3,1) · c(2,1) · c(1,1)

= 19958406

2nd way: Place 3 ATs, followed by ≥ AGCTS, ≥Ts.

1 AGT, 1 GGT, 1 AGACAT, 1 AAGAT, 1 AGGCT.

C(12,3). C(9, y. c(7, y. c(5, 1)·c(4,1)) c(3,1) c(2,1) c(4,1)

= 19958400

3rd way Place 2AGCTS, followed by 2 TS, 3 ATS.

1 AGT, 1GGT, 1AGACAT, 1 AAGAT, 1AGGCT

(122) (10, 2) (8,3) (11) (41) (3.1) (12.1) (11)

= 19958400

The courts are equipolicuit.

There are \$\frac{8!}{2!5!} = 168 mays.

A1: Liberaly

(2)

Az = Conservativos.

A3: New Domocrat

Aa: Green

A1+A2+A3+A4 = 24

1, at least 7 A1, 2A2 1A3, 1AC

A1+ A2+ A3+A4 =13

(13+4-1) = 160 ways.

(3)	. 24 donats.
	Xi will be the variety for each i 15 i 56.
	X1+X2+" + X6=24
Salara Cara Contraction Contraction	Vat least one
e de la companya del companya de la companya del companya de la co	
	X1+X2+111 + X6 = 18
	(18+6-1) = 33649 ways.
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4	A1= apple A1+A2+A3+Au=10
<u></u>	Az- orange at leas 2 Az, 1 A,
	A 1 - DOM/
	A4: bananas A1+A2+A3+A4= 7.
der grandelingsverten kantin findeten spensylvinskelden stendel bed	
	(+++-1) = 120 ways.
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