

Scan

A4409

A2829

RWR

A259973

"R.W. Robinson, computer print-out,
No date."

4 pages

3 seqs

PROGRAM ONE - CUBIC GRAPHS

Prof. Robinson

N2324 A4109
A2829

PRECISION = 60 ; LIMIT = 30

of Cubic Labeled graphs on 2n pts

Name: Cubic labeled graphs.
Ref: RE4. RWR.
#: N2324

91

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Extension of old seq
Need new S, T, N, R cards

- D(0) = 1
- D(1) = 0
- D(2) = 1
- D(3) = 70
- D(4) = 19355
- D(5) = 11180820
- D(6) = 11555272575
- D(7) = 19506631814670
- D(8) = 50262958713792825
- D(9) = 187747837889699887800
- D(10) = 976273961160363172131825
- D(11) = 6840300875426184026353242750
- D(12) = 62870315446244013091262178375075
- D(13) = 741227949070136911068308523257857500
- D(14) = 10998656630834471395270511844410868639375
- D(15) = 202079037581968580481957538481168789636313750
- D(16) = 4532573680377522367192164237204303218669843240625
- D(17) = 122580518787009584088655025743872513688025323029270000
- D(18) = 3953589386296966397314260372237257461960688476684498190625
- D(19) = 150598737013294639385460224655232739963477260218861903139293750
- D(20) = 6716146353408691120841701156848619472305888531306571635115590096875
- D(21) = 347916205027637227573719084034659575364573966723320528976776801396062500
- D(22) = 2078716010517055925512318647385786500469293464835883387228527931948993140935
- D(23) = 142321911048447332304574836692170288312081193305843279411715588059500228464718750
- D(24) = 11100385476841170524702476442613854707756942934368494509937385813460220422097869515625
- D(25) = 980936319007210477763771482683071083903349965030193060972661081451005692675244127889625000
- D(26) = 97726987218916632337018865763694555255328540368600942961002791616386541720357966876342069140625
- D(27) = 1092596394962205212384550233397778966133799006386902007524781111666555438397931342014450959141968750
- D(28) = 136497572313358728265363021048899912260202819394998063984291125896145413453901283821939270932003246242
- D(29) = 189797425421391972228121195782696416538906097087029282463891677816460497952097416454678425598501367499
- D(30) = 292654089208183840927292719484157197980754098827824119518088935976691208896241701279777170817733827705

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New Seq

A4109

of connected cubic labeled graphs on 2n pts

Name: Connected cubic labeled graphs.

Ref: RWR.

- (2) = 1
- (3) = 70
- (4) = 19320
- (5) = 11166120
- (6) = 11543439600
- (7) = 19491385914000
- (8) = 50233275604512000
- (9) = 187663723374359232000
- (10) = 975937986889287117696000
- (11) = 6838461558851342749449120000
- (12) = 62856853767402275979616458240000
- (13) = 741099150663748252073618880960000000
- (14) = 10997077750618335243742188527076864000000
- (15) = 202054682472556542440862136965656345568000000
- (16) = 4532108453971971451119242427809595355683840000000
- (17) = 122569669779454112212872376438135843630961694720000000
- (18) = 3953284392080998476360636075580787646334754751590400000000
- (19) = 150588515496622106286511431201364738321726402389305241600000000
- (20) = 6715742013645128750558399933862872577627954844976950483353600000000
- (21) = 34789749245437231867305112698754313174154213730166345762185728000000000
- (22) = 2078615497564266708806788005396058056050406654254873840530639177728000000000
- (23) = 142315689511083981984635361558897491587855404887353811024800996446472704000000000
- (24) = 11099944578181019034097399160473758913649842624043849641836434394671547408384000000000
- (25) = 98090075782572689930402680735043877691482807130615775859164306637680561876068761600000000
- (26) = 9772374038184578232719415837724375116732364283594838397165049689611204537112267653120000000000
- (27) = 10925630035076629867715025075278942898211648555334586952277165233007704582913056143402240000000000
- (28) = 1364937218852757858377780845117457810599975588641852218740067395492750022572523100196025077760000000000
- (29) = 189792468118727757114725485262927405557193841305683454932834017062049682925049333467030688598179840000000000

- D(2) = 1
- D(3) = 70
- D(4) = 19320
- D(5) = 11052720
- D(6) = 11408720400
- D(7) = 19285018552800
- D(8) = 49792044478176000
- D(9) = 186348919238786304000
- D(10) = 970566620767088881536000
- D(11) = 6808941648018137282054400000
- D(12) = 62642603299257346706851910400000
- D(13) = 739081145975842679551896017664000000
- D(14) = 18972012203610588436574642246865792000000
- D(15) = 201687875728450378870511862653278715136000000
- D(16) = 4525237511423257641694414064500977030942720000000
- D(17) = 1224122937523529447382616536574185904600000419840000000
- D(18) = 3948930370212248496417541932918245219234412348211200000000
- D(19) = 150444623935665971859672673731706345826493440719252684800000000
- D(20) = 6710118657394508907053241875414397587947632294247825848729600000000
- D(21) = 347639965155609402626337978217468083751404908857707225653673984000000000
- D(22) = 20772447434482707695700515590984263101377535286151296120938176544768000000000
- D(23) = 1422315127238190141843342395590153501587220045103987880029560037945180160000000000
- D(24) = 11094020585841227391805770197591979507414211570874278189686270619497524822016000000000
- D(25) = 980425876137293135597859582516855745046190566766350601023651023367626023041499136000000000
- D(26) = 976806185514465867136928149098111925548356941381650843590372307968209643357997367200000000000
- D(27) = 1092121692336162777184553494372086014504032145505877109232172692454743612871063602326195200000000000
- D(28) = 136443057573713013776222602396721425581051540548371914152311775212676594299085406488185203712000000000000
- D(29) = 18972750024750918224590340848285041711072913801150644397550426229566139472848930601772401202757632000000000

of 2-connected labeled cubic graphs on 2n pts

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of 3-connected labeled cubic graphs on $2n$ pts.

- D(2) = 1
- D(3) = 7
- D(4) = 10000
- D(5) = 9238320
- D(6) = 9520156800
- D(7) = 16305064776000
- D(8) = 42856575521760000
- D(9) = 163329351308323200000
- D(10) = 864876800105205071104000
- D(11) = 6155146233167046820024320000
- D(12) = 57316399761348433188962519040000
- D(13) = 683070942794440015484454449664000000
- D(14) = 10225912744009893038461390708070400000000
- D(15) = 189257782896817270658179075559567646720000000
- D(16) = 4270749067891726407335317785983223030374400000000
- D(17) = 116084871613655921720265770605425673704662302720000000
- D(18) = 3760089766744206692282663214297007814874356681932800000000
- D(19) = 143749993485521740253939839511879501273958248288845824000000000
- D(20) = 6430845222982231110609814921565704062232202251766491643904000000000
- D(21) = 33404683723243121518510512270538012258882156893258444727370240000000000
- D(22) = 20006376688887573298537876246340019248658360521959152573251699343360000000000
- D(23) = 137267133812097447836557922649326146023936093217419528396184677572935680000000000
- D(24) = 1072642611248793939686223931185381021051176840318911459032321372037636423680000000000
- D(25) = 949502810745207804072565966669368176884476782471116756124301550487342990047051770000000000
- D(26) = 9474082110645818178657646743535992329794116294868154717170647809530302338430633247200000000000
- D(27) = 10606898278259120861260638690073396853794856162594733120524088521705448668470995291757312000000000000
- D(28) = 13268035127558581122878920689151253009271328232620500174964327723592388214823634802050700902400000000000

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recurrence relations for these are by N. Wormald