

•••—¼=•x x 0%~•8X@

• Fixed 0"

• Fixed 1"

Fixed 3" y y ... ,?
DRTXM2 BOM... & DRTXM2 FILTER COMPONENT VALUES®

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..... y .
..... y ü ? - 0 ..... DRTXM2DTR PCB Board (LED Board)
Newtronix `DRTXM2DTR

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``Quote # 2306!``DRTXM2MAIN PCB Board (Main Board)
``DRTXM2REVB

``Quote # 2334•``DRTXM2 Front Panel°``Phillips•``1-Pos DIP Switch•``8-Position
DIP switch~``DKY
``CKN3007-ND1``Electroswitch
``C5P0112N-A•``4T3P Slide Switch ``EG1915-ND°``H5096-ND"``6-4 Modular RJ-11
Jack (Top Entry)°``A9083-ND•``Single Row Female Header

`929974-01-10 ``Rt. Angle Single-Row Male Header

``929835-01-36•``Right Angle RCA Jack~``MSR````16PJ097•``MOLEX 2156 Connector
``WM4620-ND•``Panel Power Switch~``C&K

``D102J12S205PQF•``600:600 Transformer````42TC016•``Audio Transformer
``Radio Shack•``RUE300 Resetable Fuse````RUE300-ND•``RXE110 Resetable Fuse
``RXE110-ND``P4557

``140CD50Z6-103Z°``P4586-ND°``P3563-ND

SR225E104MAA

``140-PM2A224K``EF1105°``P2059-
ND``SPRAGUE•``199D106X9025CA1``P6239``MALLORY•``140-NPRL50 V1000•``140-
CD50P2-102K•``678D227M016CC3D•``5982-10-500V-27•``5982-15-500V470•``140-CD50S6-
471M•``2-12pF NPO Trimcap
``242-3610-12•``Ferrite Bead (FB-75B-101)``Amidon
``FB-75B-101•``Ferrite Bead (FB-64-101)``FB-64-101•``Toroid (FT-50A-77)
``FT-50A-77
``1N60 Diode°``610-1N60

`1N4001 Diode
`583-1N4001

``1N4148 Diode
``333-1N4148•``1N4749A 24V Zener Diode
``583-1N4749•``ICL-7667 MOSFET Driver•``Harris (Newark) ``MTP7N20E MOSFET [TO-220 Package]•``Motorola (Newark)°``MTP7N20E``MC3340P°``Motorola``TL071CP•``Texas Instruments``LM3914N°``National
``LT1013-CN8``Linear``LM339N
``SN74HCT04N°``TL074-CN
``SN74HCT109N
``SN74HCT161•``LM7805 (LM340T5-7805)•``TDA1516CQ (or TDA1516BQ)•``Green T 1 3/4 LED``P375-ND•``Red T 1 3/4 LED``P374-ND•``Yellow T 1 3/4 LED``P372-ND
``Red T1 LED``P363-ND•``Right Angle LED Mount``Bivar•``10 Ohm 5% 1/2 W Resistor6``All resistors are 1/4 Watt unless otherwise specified.

`1k 5% Resistor•`5.1k 5% Resistor•`10k 5% Resistor•`22k 5% Resistor•`100k 5% Resistor

``1M 5% Resistor•``2.2M 5% Resistor•``1.00k 1% Resistor•``1.50k 1%
Resistor•``2.26k 1% Resistor•``2.32k 1% Resistor•``3.40k 1% Resistor•``5.11k 1%
Resistor•``10.0k 1% Resistor•``24.9k 1% Resistor•``49.9k 1% Resistor•``10k 6-pin
SIP``264-10K•``2.2k 10-pin SIP``266-2.2K•``5k Sideturn Trimpot
``594-63X502•``100k Sideturn Trimpot
``594-63X104•``20k Topturn Trimpot
``3296W-1-203•``Circular Finned Heatsink°``HS101-ND``7253-WI•``18 AWG Red-Black
Zipcord Wire``Hosfelt``60-192•``18 AWG Insulated Wire``36-260

`20 AWG Buswire`7255-WI•`MOSFET Insulating pads `HIS INUT. •`6-32 Nylon
Hex Nut ~~~Tower~~6CNHMN!`6-32 x 1" Nylon Screw (Flat Head) `6C100MSBN

` `2616PL00-3D3

``Plastic Bobbin``2616F1D
``Metal Clamp

``2616HPC-Holder1``#10 Nylon Nut/``4-40 Nylon 3/8" Spacers (round, 1/4" diameter)•``4-40 Nuts w/Nylon insert ``4-40 Nuts•``Increased quantity•``4-40 Solder Lug Washer•``4-40 1/2" Pan Head Screw•``6-32 1/2" Pan Head Screw•``6-32 Nuts w/Nylon insert•``Schroff Enclosure Kit````Schroff1``M2.9x9.5 [or M3.0x8] Oval Head self-tapping screw•``21100-542 [BN14067M2.9x9.5]•``order in groups of 100s•``Plastic Handles°``VMEX1000•``Retainer Sleeves°``VEMR3050•``Captive Screws°``VMES4000•``ID Plate (Blank) °``VMES5000•``ID Plate (HIS Logo)

`M2.5 X 45P Nut•`M2.5 X 16 Screw\$`FILTER COMPONENTS (depends on
freq.)•`P26/16-3D3-E100/N1`Matching Pair•`Cornell-Dubilier

``CD19FD122J03

``CD19FD132J03

``CD19FD162J03

``CD19FD242J03

``CD19FD272J03

``CD19FD302J03

``CD19FD332J03

``CD19FD392J03

``CD19FD432J03•``Concord 707-1604•``Tropic Fast 805-120#``DRTXM2 TRANSMITTER
 BILL OF MATERIAL~``QTY•``PART NUMBER DESCRIPTION``MFR/VNR~``MFR•``HIS PART
 NUMBER~``COST~``TOTAL~``NOTES``PRODUCT•``Schroff [or Tower]``DRTXM2•``0.056 UF
 Film Capacitor ``0.1 UF/50V Decoupling Capacitors!``100 UF/25V Electrolytic
 Capacitor"``1000 UF/35V Electrolytic Capacitor0``1000 UF/50V Non-Polarized
 Electrolytic Capacitor•``51 ~ 5% Resistor•``680 ~ 5% Resistor•``10 UF 25V
 Tantalum Capacitor•``3300PF Polyester Film Cap !``0.01uf 50V Ceramic Disc
 Capacitor``0.022 UF 50V Polyester Film Cap``0.22 UF 100V Polyester Film
 Cap•``1UF 100V Metalized film Cap•``1UF 35V Tantalum Cap•``100 pF 50V Ceramic
 Capacitor•``1000 pF 50V Ceramic Disc Cap)``220 UF/16V Low Electrolytic ESR
 Capacitor ``27 pF 500V Silver Mica Capacitor•``470 pF 500V Silver Mica"``470 pF
 50V Ceramic disc Cap radial•``22 ~ 5% Resistor 1/4Watt•``30.9~ 1% Resistor (was
 33.2())•``750.0~1% Resistor•``#10 Nylon screw
 ``10F100MSBN``10FNHMN•``4-40 Lock Washers (split)•``6-32 1/4" Pan Head
 Screw•``TRANSFORMER COMPONENTS•``96-Pin Right Angle Male!``S0-259 Bulkhead
 connector (83-1R)°``Sterling

` `AVX/Today comp
` `SPRAGUE/MSR

``74-199D25V10•``Newark p/n 91F6288•``Newark p/n 90F7553
``08TMTP7N20E1``New Advantage
``Arrow-Semi•``909-235/ Future``293-10``291-22~``291-51~•``291-680~``291-
1K•``291-5.1K``291-10K``291-22K•``291-100K``291-1M•``291-2.2M•``271-
30.9•``271-750~``271-1K``271-1.50K``271-2.26K``271-2.32K``271-3.40K
``271-5.11K``271-10.0K``271-24.9K``271-49.9K
``Bourns/DKY•``Pemco/Newark/Belden•``299-20/ 36F1027WA``Newark``46F7847
``9226-N-
115``4CNNMS``4CNHMS``4NLMSS•``4C50MXPS•``6C50MXPS•``6C25MXPS``6CNNMS•``PCB-
518-0000-006•``PCB-518-0000-007•``PAN-594-DRTXM2-000•``SWI-340-0001-000
``ALCO/ASE-22

``Newark/87F1671•``SWI-340-0008-000•``SWI-340-0000-100•``PLU-418-0096-002•``JAC-417-6-4-000•``CON-410-0010-001•``CON-410-0010-002•``JAC-417-0100-101•``CON-410-2156-000•``SWI-340-0200-000•``CON-410-0083-001•``TRA-210-0600-600•``FUS-330-0300-000•``FUS-330-0110-000•``CAP-001-3300PF-050•``CAP-000-.01UF-050•``CAP-009-.022UF-050•``CAP-009-.056UF-000•``CAP-000-.1UF-000•``CAP-009-.22UF-100•``CAP-001-1.UF-100•``CAP-060-1UF-035•``CAP-020-100UF-025•``CAP-000-100PF-050•``SK102M035ST•``CAP-020-1000UF-035•``CAP-020-1000UF-050•``CAP-000-1000PF-050•``CAP-020-220UF-016•``CAP-040-27PF-500•``CAP-040-470PF-500•``CAP-000-470PF-050•``CAP-070-2-12PF-000•``FER-365-0075-001•``FER-365-0064-101•``TOR-380-0050-077•``DIO-200-0060-000•``DIO-200-4001-000•``DIO-200-4148-000•``DIO-200-4749-024•``MOS-210-7667-000•``MOS-210-0007-220•``IC-220-0334-000•``IC-220-0071-000•``IC-220-0391-004•``IC-220-1013-008•``IC-220-0339-000•``IC-220-0074-004•``IC-220-0000-074•``IC-220-0074-109•``IC-220-0074-161•``IC-220-7805-000•``IC-220-1516-000•``LED-320-0375-000•``LED-320-0374-000•``LED-320-0372-000•``LED-320-0363-000•``BRK-470-0909-235•``RES-111-10~1/2w-005•``RES-100-22~1/4w-005•``RES-100-51~1/4w-005•``RES-100-680~1/4w-005•``RES-100-1K 1/4w-005•``RES-100-5.1K1/4w-005•``RES-100-10K1/4w-005•``RES-100-22K 1/4w-005•``RES-100-100K1/4w-005•``RES-100-1M 1/4w-005•``RES-100-2.2M1/4w-005•``RES-110-30.9~1/4w-001•``RES-110-750~1/4w-001•``RES-110-1.50K1/4w-001•``RES-110-1K 1/4w-001•``RES-110-2.26K 1/4w-001•``RES-110-2.32K 1/4w-001•``RES-110-5.11K 1/4w-001•``RES-110-10K1/4w-001•``RES-110-24.9K 1/4w-001•``RES-110-49.9K 1/4w-001•``RES-120-5 X 10K-006•``RES-120-9 X 2.2K-010•``POT-178-0005-000•``POT-178-0100-000•``HEA-455-0101-000•``WIR-610-0018-000
``QTY IS 14"•``WIR-611-0018-000•``Solid, increased quantity 10"•``WIR-612-0020-000•``Alpha Hook-up wire QTY 1'•``INS-467-0000-220•``NUT-421-0632-001•``SCR-421-0632-001•``SCR-421-0010-001•``NUT-421-0010-001•``SPA-441-0040-038•``NUT-422-0440-001•``NUT-421-0400-000•``WAS-490-0440-000•``WAS-491-0440-000•``SCR-419-0440-012•``SCR-419-0632-012•``SCR-419-0632-014•``NUT-422-0632-001•``SCR-419-0100-000•``Tropic•``M2.5 x 5PFMSSTZ•``SCR-419-0103-000•``KNO-496-1000-000•``RET-443-3050-000•``SCR-419-4000-000•``PLA-595-5000-000•``PLA-595-5000-001•``NUT-421-2.5 X 45P

``SCR-419-2.5-16-``P/N 704-DRTXM2 TRANSFORMER KIT

``Eastern Comp•``B0B-363-2616-000

`CP-P26/16-/STA1`CLM/TP/P26/16+`Ungapped Pot Core Ferrite 3D3 2250
material•`FER-365-2616-000

``P26/16-3D3-H-``Electroswitch 12-position shaft PC-pin rotary•``SWI-340-0012-000(``0.125 shaft with option screwdriver slot•``3/8" Electrical tape 3M
#1318•``Elect. Insulators
``3M1318x.375•``TAP-490-1318-038
``#1318 3/8"•``TRA-210-0100-000-``20 awg Copper Enamel Bell Wire

``Marlin P Jones•``WIR-631-0020-000)`` 2nd source Keystone 7311 75.00
min.order•``P/N 704-DRTXM2 FILTER KIT•``ORIGINAL DATE 990310!``Pot Core Ferrite
3D3 100 Material•``FER-365-2616-100•``Gray Screw Core

``ADJ-P26-Gray•``POT-180-0026-000•``1200PF 500vdc Silver Mica Cap•``CAP-040-
1200-500•``1600PF 500vdc Silver Mica Cap•``2400PF 500vdc Silver Mica
Cap<`'••``2700PF 500vdc Silver Mica Cap•``3000PF 500vdc Silver Mica Cap•``3300PF
500vdc Silver Mica Cap•``3900PF 500vdc Silver Mica Cap•``4300PF 500vdc Silver
Mica Cap•``5600PF 500vdc Silver Mica Cap•``6800PF 500vdc Silver Mica
Cap•``7500PF 500vdc Silver Mica Cap•``1300PF 500vdc Silver Mica Cap

``CD19FD562J03

``CD19FD682J03

``CD19FD752J03•``CAP-040-1300-500•``CAP-040-1600-500•``CAP-040-2400-500•``CAP-040-2700-500•``CAP-040-3000-500•``CAP-040-3300-500•``CAP-040-3900-500•``CAP-040-4300-500•``CAP-040-5600-500•``CAP-040-6800-500•``CAP-040-7500-500•``12.720 Oscillator•``13.040 Oscillator•``12.880 Oscillator•``19.680 Oscillator•``13.520 Oscillator•``20.160 Oscillator•``Comclock1``C011AF-12.7201``C011AF-12.8801``C011AF-13.0401``C011AF-13.5201``C011AF-19.6801``C011AF-20.160•``OSC-391-1272-000•``OSC-391-1288-000•``OSC-391-1304-000•``OSC-391-1352-000•``OSC-391-1968-000•``OSC-391-2016-000•``ENC-550-3481-100 ``/11099704•``10-pin header broken in half•``CAP-060-10UF-025•``RES-110-3.40K1/4W-001•``CLA-402-2616-000•``COST OF BOM DRTXM2``DATE & ECN CHANGE & DESCRIPTION!``990310-Original Start Date of BOM-``24 AWG Copper Enamel Bell Wire•``WIR-631-0024-001``83-1R1``A2TICL7667CTV•``.01uf monolithic 50V cap``29F010•``CAP-030-.01uf-050•``repl.CAP000-.01uf-050 Disc•``140-CD50N6-101K``4 Pin socket for the oscillator``A462-ND•``SOC-435-0462-000•``4" nylon cable tie``78N536•``TIE-402-0440-000•``ECO 6-6-99 added to BOM•``obs part 140CD50S6-101MU``990606-ECO added 4 Pin socket SOC-435-0462-000 & 4" nylon tie TIE-402-0440-000 to BOM``total1``OUTSIDE LABORM``KIT P/N 704-DRTXM2 BOM KIT, 704-DRTXM2-1BOM RETURN AS SUB-ASSEMBLY 804-DRTXM2/``FINAL PRODUCT P/N TXM0010 ORIGINAL DATE: 990310%``RETURN AS SUB-ASSEMBLY P/N 804-DRTXM2G``KIT P/N 704-DRTXM2 TRANSFORMER KIT RETURN AS 804-DRTXM2 TRANSFORMER KIT=``KIT P/N 704-DRTXM2 FILTER KIT RETURN AS 804-DRTXM2 FILTER KIT ``TOTAL BOM•``ENG.LABOR (2HRS)•``POT-177-0020-000•``M2.5x4.5 (use M2.5 x 5)•``Obs use 030-.01uf-050•``RUE400 Resettable Fuse``F2027•``FUS-330-0400-000/``24awg inductor silver tinned insul.wire natural

``Phoenix Wire•``WIR-633-0020-000-``20awg inductor silver tinned insul.wire
black•``WIR-633-0024-001/``20awg inductor silver tinned insul.wire natural
``610 Diode
``610-CDSH270•``DIO-220-0000-610•``repl.Diode 1N60•``obsolete use 610
diode~``IDENT^``H1

`C13, 14, 39-

42~`C31~`C35~`C38~`C33~`C32~`C30~`C54~`C6, 9~`C8~`C55~`C56~`C59, 60~`
C57~`C37~`C21~`C58~`P3A~`P3B~`J1~`U12~`D1, 17

``D3, 5, 8, 12, 14` ``Z1-6` ``D15, 16` ``RFC5C` ``RFC1A, B, C` ``F1-
4` ``F5` ``H2` ``U14` ``U8` ``U2` ``U50` ``U4` ``U15` ``U3, 5, 11` ``U13, 16` ``U9` ``U7` ``U10`
``P2` ``H3` ``LED1-20` ``D11` ``D10, 13
``D2, 4, 6, 7, 9` ``Q1-
4` ``U1, 6` ``H4` ``H5` ``H6` ``H7` ``PC2` ``PC1` ``H8` ``H9` ``P1` ``R46` ``R55, 58` ``R35

``R52, 18, 19, 39
``R37, R38, R40``R7, 49``R53, 56``R22``R50
``R6, R64, R65``R41``R59``R32``R60
``R54, R57, R89•``R12, 17, 25, 61, 62``R33``R63``R3``R43-
45``R42, 51``R4``R5``R30``R1, 2``R47``S1P2``H10``H11``H12``H13``H14``
H15``H16``S5``S3, 4``S1, 2``T4``T3``H17``H18``W1``W2``W3``W4``T1B``T
1F``S6``T2``H19``H20``H21``H22``H23``H24``H25``H26``H27``H28``H29``
W5``W6``H30``H31``H32``LF1-3F``LF1-
3A``H33``W7``CFX1``CFX2``CFX3``CFX4``CFX5``CFX6``CFX7``CFX8``CFX9``C
FX10``CFX11``CFX12``U30X1``U30X2``U30X3``U30X4``U30X5``U30X6``W8•``C3A,
4A, 12, 16, 19, 29:``C1-5, 7, 10-11 , 15, 17-18, 20, 22-28, 34, 38, 43-46, 49-53, 1A, 2A
#``PARTS FOR ENGINEERING CHANGE ORDERS•``ORIGINAL DATE 20000524 TMH

``C57 (change) ``24 pF 500V Silver Mica Capacitor•``5982-10-500V-24•``CAP-040-
 24PF-500°``C101,102°``C103,104°``R101,102°``D101,102°``R103•``5.1M 1/8 Watt 5%
 Resistor•``RES-100-5.1M1/8W-005°``299-2.2M•``330R 1/8 Watt 5% Resistor°``299-
 330•``RES-100-3301/8W-005•``ECO T6 Crossover Timing!``50 pF 50V Ceramic disc Cap
 radial ``22 pF 500V Silver Mica Capacitor•``5982-10-500V-22•``CAP-040-22PF-
 500•``BAT-85 Schottky Diode°``Various•``DIO-220-0085-000•``ECO T5 RF Filt @
 Primary•``ECO T4 Limit Sw Pulldown•``ECO T6 VSWR Nulling°``Freq°``CF1°``CF2,3
 °``CF4 A,B,C,D°``C4 Tot°``L1,L3°``L2°``MHz°``pF°``uH°``Turns°``Osc Freq°``Div
 By.``FILTER COMPONENT VALUES & OSCILLATOR FREQUENCYy`0`°`f°`

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0}{~~~~~•``2700PF 500vdc Silver Mica Cap•``3000PF 500vdc Silver Mica  
Cap•``3300PF 500vdc Silver Mica Cap•``3900PF 500vdc Silver Mica Cap•``4300PF  
500vdc Silver Mica Cap•``5600PF 500vdc Silver Mica Cap•``6800PF 500vdc Silver  
Mica Cap•``7500PF 500vdc Silver Mica Cap•``1300PF 500vdc Silver Mica Cap

``CD19FD562J03

``CD19FD682J03

``CD19FD752J03•``CAP-040-1300-500•``CAP-040-1600-500•``CAP-040-2400-500•``CAP-  
040-2700-500•``CAP-040-3000-500•``CAP-040-3300-500•``CAP-040-3900-500•``CAP-040-  
4300-500•``CAP-040-5600-500•``CAP-040-6800-500•``CAP-040-7500-500•``12.720  
Oscillator•``13.040 Oscillator•``12.880 Oscillator•``19.680 Oscillator•``1  
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$$\vec{y} \cdots \vec{\mu}$$

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½`\$`>````•[!``à @!``-@!``f@!``£@`~`^

`>`~`"~`İ@ÿ%²ú•@~^

`>```#`&öCêxÃ-@~^

`>`""`FïyIÑü!@~^



`?`~`"=-?ñ}a•@~^

`?```#`‰•-8sv-@~^

`?`""`ó\$Y\*å !@~^



ÿT0•°•A

$\ddot{y}$     $\bullet$     $\sim$     $\circ$     $\wedge$     $\bullet$    B

$\vec{y} \cdot \vec{c}$

˘y˘˘y

~~~~~p~~~~

~~~~~  
~~~~~•E~~~~

~~~~~  
y~~~~~°~•F~~~~

y ..... • G

у • • • • • н

~~~~~y~~~~~•°•I~~~~~

$$\mathbb{E} \left[\sum_{j=1}^n \dot{y}_j \right]$$

$$\vec{y} \cdots \vec{\mu}$$

°^•`K`´´´´

ÿ`··»1°·L`

~~~~~y~~~~,~~~~~(~~~~~°~~~~~M~~~~~

$\vec{y} \sim Y \bullet \vec{y} \sim \bullet N$

~~~~~y~~~~~'•~~~~7^^^•0~~~~~

ÿ7•Ÿ°•p

$\vec{y} \cdot \vec{u} \cdot \vec{\phi} \cdot \vec{q}$

~~~~~  
y~~~~

•  $\sim 2^{-\alpha} \sim R^{-\alpha}$

y · · · · · s

γ θ • τ

~~~~~y~~~~~F°°^•U~~~~

ý~~~~"ôG°•V~~~

y-----°•w---

$$\tilde{y} \sim \{ \tilde{z} \sim \tilde{z}^{\circ} \sim \tilde{z}^{\wedge} \sim \tilde{z}^{\vee} \sim \tilde{z}^{\times} \}$$

~~~~~  
y~~~~~°•Y~~~~~

$\vec{y} \cdot \vec{z}$

ÿ · °G^ · [

$\vec{y} \cdot \vec{G}^\circ \cdot \vec{\backslash}$

~~~~~y~~~~~.^^.~]

$\vec{y} \cdot \vec{\theta} + \vec{x} \cdot \vec{w} + b$

γ→T0⁰⁰•₋

ÿ ¸ \$ @ \@! }@! -@! f@! £@ ~ ^

`@`~`~`~`1½H
"i•@~^

`@```#`D\`'•Ý(-@~^

`@`"``
'1<G!@~^

`A`~`"~`öVÄÉ;•@~^

`A` ` `#`
å^´-Ü•@~^

`A`""`"/Ç-B-ö @~^

`B`~`"0{•5ü®•@~^

`B```#`É•[!Ø'•@~^

`B`""`KJ6i0æ @~^

`B`°`#`„6•ò,2 @½`•`B`   `%`^`•@&`^`(@
`^`•`B`
`\$`^`^`^`^`^`^`^`A`
ÿ`^`^`^`
½`\$`C`^`^`^`^`A\@!`^`^`^`}@!`^`-@!`^`• @!`^`•i@`^`~`^`

`c`~`"~-İ~, Ö•@~^

`C` ` `#`]¶G S•@~^

`C`""`&ai•°´ @~^

`D`~`"`,•z „(•@~^

`D` ``#`é\SeûX-@~^

~D~"~"~M

•-μ~!@~^

`E`~`"~`e••đfš•@~^

`E` ``#`<ÜÜe>

-@~^

`E`""`<DÛ\,)!@~^

`F`~`"~`¿P,ŸK••@~^

`F```#`ÀÊ`|£Å•@~^

`F`""`rR•Æ"Ö @~^

```

`F`#`BâA2<N`@½`•`F`      `%`´`@&``0@
`•`F`
`$`~~~~~`E`
ÿ`E`
½`$`G`~~~~`À]@!``àz@!``ÈC@!``•`@!``•`i@`~`~`

```


`G`´´`#`´´´xë}•@~^

`G`""`ŠuVđŦ... @~^

`G`°`#`B`":-C' @½`•`G` `%`´À @&``0@
`·`G`
`\$`~~~~~`F`
ÿ`´E`
½`\$`H`   `^@!``àz@!``È@@!``• @!``•i@`~`~`

`H`~`~"~`õ•Đá®´•@~`^

`H`´`#`İZ`ók7•@~^

`H`"``",1°57 @~^

`H`°`#`u¼TáŸ` @½`•`H` `%`^^` @&`^^`0@
`^^`•`H`
`\$`^^^^^^^^`z`
ÿ`^`E`
½`\$`I`^^` `@^@!`^^`x@!`^`È@@!`^^`•`@!`^^`i@`~`^`

~I~ ~ ~ ~
NG"

‡•@~^

`I```#`•v+5•ò•@~^

`I`""`Ø UφAÕ@~^

`I`°`#`\$?!w^μ@½`•`I` `%`´@`@&``0@
`·`I`
`\$`~~~~~`G`
ÿ`´E`
½`\$`J`~~~~`·^@!``x@!``È@@!``•`@!``·i@¯~^

~J~"~...20

•@~ ~

`J` ` ` `#` ` ` `ò×•õ-•@`~`

~J~"~1 "E
@@~^

`J`°`#` <E ¶j@½`•`J`      `%`´• @&``0@
`·`J`
`\$`~~~~~`I`
ÿ`E`
½`\$`K`~`~`A^@!`~`x@!`~`È@@!`~`• @!`~`i@~`~`

`K`~`"~`â5¶âŠ'•@~^

`K```#`%Iwcij•@~^

`K`""`w1A-!®-@~^

`K`°`#`a;`ÉJ!@½`•`K` `%`´À`@&``0@
`·`K`
`\$`·········J`
ÿ`·`E`
½`\$`L`·····`_@!`···x@!`·È@@!`·`·`@!`·`·i@`~`~`

`L`~`"Š•" u••@~^

`L` ` `#`-`'•`—`)•@~^

`L`""`"×ı•<ó -@~^

L`#T-•¼•Ü-@½`•L`%`"@"&`\$@
 `•L`
 \$`K`
 ÿ`E`
 ½`\$M`ö?`!`x@!`ÉC@!`•`@!`•`i@~`~`

`M`~`~"~`~C<CZ~•@~^

`M` ` `#`ú 11,è•@~^

`M`""`šwÚÝÒ-•@~^

`M`°`#`Õϕw<

'-@½`•`M`   `%``4@&``0@
`•`M`
`\$`.....`L`
ÿ`E`
½`\$`N`   `•`_@!``x@!``pS@!``à`@!``àY@`~`~`

`N`~`"``^kbû1j•@~^

`N` ``#`B9<sup>1</sup>-I`•@~^

`N`""`ŌM©-wô@~^

`N`°`#`ÖfÆÍâÄ@½`•`N` `%`´`•Y@&```0@
`·`N`
`\$`~~~~~`H`
p`~`E`
`½`\$`0`~~~~`A_@!``•v@!``pS@!``à`@!``àY@~`~`

`0`~`" `i&`»¹(•@~^

`0` ``#`@ 31x¼•@~^

`0`""`ãú ••d@~^

```
\0`#`GšÈì|@½`•`0`      `%`ÀŸ@&``0@
\`•`0`
$`~~~~~M`
ÿ`E`
½`$`P`~~~~~@!``•v@!``p$@!``à`@!``àŸ@~`~`
```

`p`~`"~`1îÅ\³•@~`

`P``#`- •„` }•@~^

`p`""`kÜ <x-@~^

```
\P`°#`îà%Ú5@½`•`P`      `%``"@&``$@
\`•`P`
\$`~::~::~::~::°`0`
ÿ`E`
½`$`Q`~::~::~::`@!`•`v@!`p$@!`à`@!`ày@¯`~`~`
```

`Q`~`" `ê³òôþ@•@~^

`Q``#`iμ-÷=•@~^

`Q`""`K>#YØM-@~^

Q`#×,É"ð-@½•`Q`%`@&`@@
 `•`Q`
 `\$`~~~~~`P`
 ŷ`E`
 ½`\$`R`~~~~`@`@!`•v@!`p\$@!`à`@!`àŸ@~`~`

`R`~`"~•ĖÓ•)Ñ•@~^

`R` ``#`?=ôR:ÿ•@~^

`R`""`E dăÊÇ•@~^

`R`°`#`^`^`|`N<<-@½`•`R` `%`^`~`@&`^`(`@
`^`^`•`R`
`\$`^`^`^`^`^`^`^`^`Q`
ÿ`^`E`
½`\$`S`^`^`^`^`^`^`^`^`@!`^`•v@!`^`pS@!`^`à`@!`^`àY@`^`~`^`

`S`~`"~*%0İ\$d•@~^

`S```#`ø«M1xÁ•@~^

`S`""`1äfùøD•@~^

`S`°`#` ü>, |g-@½`•`S`   `%`^^` @&`^^`0@
`·`S`
`\$`^^^^^^^^`R`
ÿ`E`
½`\$`T`^^`·`@!`^^` t@!`^^`pS@!`^^`à`@!`^^`äY@`~`~`

`T`~`" `Ø/×.¼ù•@~^

`T``#`!`*`•`a`„`•`@`~`^`

`T`""`~Ó>ÜHÅ•@~^

`T`°`#`•ÖÇ^a
%-@½`•`T` `%"@&```\$@
`·`T`
`\$`··········S`
ÿ`·`E`
½`\$`U`·······`@!`·`t@!`·`pS@!`·`à`@!`·`àY@`~`~`

`U`~`"~`f'5(Ü'•@~^

`U```#`-ô|šìh•@~^

`U`""`"æbÙÉ;H•@~^

`V`~`"`.gUFo,•@~^

`V` ``#`(Sê^Ø1•@~^

`V`""`j•`îêî•@~^

`V`°`#`» Gâ¢•@½`•`V`      `%`´À @&``0@
`·`V`
`\$`~~~~~`U`
ÿ`´E`
½`\$`W`      `à`@!`` t@!``pS@!``à`@!``àY@`~`~`

`w`~`"úđ@öbÉ•@~^

`W` ``#`->~çÈÓ•@~^

`W`"``^T8[•X•@~^

`W`°`#`É`Ç`Hc•@½`•`W`     `%`´à`@&``0@
`·`W`
`\$`·····`V`
ÿ`´E`
½`\$`X`····`a@!``t@!``pS@!``à`@!``àY@¯~~^

`X`~`"~ JI0h•@~^

`X` ` `#`•GÍ•™Š•@~^

`x`""`ŠY¾pøã•@~^

`Y`~`"´<«(#
•@~^

`Y` ``#`= <-ôCb•@~^

`Y`""`g@4- r•@~^

`Y`°`#`,`Ø`V1æ•@½`•`Y`   `%`´`i@&``0@
`·`Y`
`\$`~~~~~`X`
ÿ`E`
½`\$`Z`~~~~`@a@!``Ar@!``pS@!``}`@!``@`~`~`

`z`~`" `Ü¬•| -•@~^

`Z` ``#`ÑuŸGon•@~^

`z`""":lîæûš•@~^

`[`~`"~i...† •@~^

`[```#`H AÇIF•@~^

`[`` `` `` `` ° •æ¬mC•@~^

[`~·#0@ÄÊ|à•@½··[~%~`i@&~`0@
··[
\$~~~~~Z`
ÿE`
½\$\\~·a@!`Àr@!`·¥@!~~} @!~~~@~`~`

\\~\"ý.þ"! ,•@~^

`\```#`1öp²a₁•@~^

`\`"~"-©q î•@~^

`]`~`"æÉ¢ìì•@~^

`]```#`5Z •pÕ•@~^

`]`""`y% q0\•@~^

`]```#~MÉ• e•@½`•`]` ` %` ` i@&``0@
`·`]
`\$`````````\`
ÿ`E`
½`\$`^` `` `Aa@!``Ar@!``•¥@!``} @!`` @`~`^`

`^`~`~`"9A~QÙo•@~^

`^``#`4(™ ß •@~^

`^`"``•SĚa i•@~^

`^`°`#` p)çQ)•@½`•`^` `°` š@&`(`@
`·`^`
`\$`··········]`
ÿ`·`E`
½`\$`_`····`·`àa@!`·`Àr@!`·`¥@!`····}@!`···· @`~`~`

±0••@~^

`_```#`ň>8ň^h•@~^

`\_`"``i"5°h •@~^

γ̇τθ••α

$\vec{y} \cdot \vec{z} \approx \vec{b} \cdot \vec{z}$

$\vec{y} \cdot \vec{c}$

˘y˘˘y

~~~~~  
•••••d~~~~

~~~~~y~~~~~u~~~~~•e~~~~~

~~~~~  
y~~~~~°•f~~~~

$\vec{y} \cdot \vec{g}$

~~~~~y~~~~~•~~~~~°~~~~~•~~~~~h~~~~~

~~~~~y~~~~~.°~.i~~~~

$$\mathbb{E} \sum_{j=1}^n \dot{y}_j^2$$

$$\vec{y} \cdots \vec{\mu}$$

°^•`k`~`

ÿ`··»1°·1`

ÿ`´´´´,•´´´(•°^•`m´´´´

ÿÿÿÿÿ•ÿÿÿÿÿ•nÿÿÿ

ÿ'•7^^•o'

ÿ7•Ÿ°•p

$\vec{y} \cdot \vec{u} \cdot \vec{\phi} \cdot \vec{q}$

~~~~~  
y~~~~

$$\bullet \cdot 2^{\circ} \wedge \bullet \cdot r^{\circ}$$

~~~~~y~~~~~•~~~~~°~~~~~•~~~~~s~~~~~

y 0 . t

~~~~~y~~~~~F°°^•u~~~~

~~~~~"~~~~~  
y~~~~~øG°~•v~~~~~

$\vec{y} \cdots \vec{w}$

$$\tilde{y} \sim \{ \tilde{z} \sim \tilde{z}^{\circ} \sim \tilde{x} \}$$

$$\tilde{y} \cdots \tilde{y} \cdot y \cdots$$

$\vec{y} \cdot \vec{z}$

`ÿ`·`óG½`\$` ``b@!` `Àr@!` `•¥@!` ``} @!` `` @`~`^`

~~~~~ PrY0»•@~^

~~~~~`#`g~RĐ;3•@~^

~~~~~`Ě“i<š••@~^


`a`~`"~`ãã;Èd•@~^

`a` ` `#`•a ! p•@~^

`a`""`"⌘w•{#¬•@~^

```
\`a`#NßV2³y•@½`·`a`    `%`¢@&``0@
`·`a`
`$
~~~~~
ÿ`E`
½`$`b`      `@b@!`àp@!`•¥@!``} @!`` `@`~`~`
```

`b`~`"~`v'μŸ••@~^

`b```#`é/±â Ê•@~^

`b`""`"×ôâÛòE•@~^

```

`b` `#` gŌçæİ@•@½` •`b`      `%` ``>@&`` (@
`•`b`
`$` ~~~~~~`a`
ÿ`E`
½`$`c` ~~~~~~`b@!` `àp@!` ``¥@!` ``}@!` `` `@`~`~`

```

`c`~`" `È~`°N¼•@~`

`c` ``#`Cû`9g-•@~^

`c`""`^pl'øá•@~^

`c`°`#`\\û@à³°•@½`•`c`     `%`^^`¢@&`^^`0@
`^`•`c`
`\$`^^^^^^^^`b`
ÿ`^`E`
½`\$`d`^^` `•b@!`^`àp@!`^`¥@!`^^` }@!`^^` @`~`~`

`d`~`"~`®^s°Èj•@~^

`d``#`ø•
Sæd•@~^

`d`""`j>w=#••@~^

`d` `#` a¥ú`Ñ•@½`•`d` ``%` `À>@&````(@
 `•`d`
 `\$` ``````````c`
 `ÿ`E`
 `½`\$`e` ```` b@!` `àp@!` ``•¥@!` ````}@!` ```` @`~`~`

`e`~`"~«Úâ

ÿ••@~^

`e```#`X`0...•3•@~^

`e`´´´´´™9•Ee •@~^

```
`e`#`9"J,Ňš•@½`•`e`    `%`¢@&``0@
`•`e`
`$`~::~::~::~::~`d`
ÿ`E`
½`$`f`~::~::~`ø?!\`œ@!\`•¥@!\`àz@!\`àš@~::~`
```

`f`~`"~ æ½ñİ>•@~^

`f``#`••0 I•@~^

`f`""`Šáãî_K•@~^

```
f`°#D°y±\³•@½•f`%``(@&```@
`·f`
$~~~~~e`
ÿE`
½$g`àb@!`æ@!`•¥@!`àz@!`às@`~`~`
```

`g`~`"~P-82|đ•@~^

`g` ` `#`1~ ® ••@~^

`g`""`"WC<"ı•@~^

```
`g`#`.*9`_}`.@½`·`g`    `%`à'@&`` `@
`·`g
`$`~::~::~::f`
ÿ`E`
½`$`h`~::~::c@!`~::æ@!`~::¥@!`~::àz@!`~::às@~::~
```

h~"~½Ë•@~^

`h`´`#`ñ0ŠL)è•@~^

`h`""`Õ6IÁ¿'•@~^

```
`h`#`û¥8•¼H•@½`•`h`    `%`    @&```,`@
`•`h`
`$`~~~~~`g`
ÿ`E`
½`$`i`~~~~`c@!``æ@!``¥@!``àz@!``às@~~~~
```

`i`~`"~xÕ m1Y•@~^

`i```#`f^••y,•@~^

`i`""`gíñé07•@~^

```
\i`°#÷ð~••@½••i`    `%`"@&`` `@
\`•i`
\$``````````````h`
ÿ`E`
½$`j` ```` ``@c@!`` æ@!`` •¥@!`` àz@!`` àš@`~`~`
```

`j`~`" `sâô&Đ••@~^

`j` ``#`Ê¢N½k‰•@~^

`j`"``%Ü%•Æß•@~^

```

j`#`:=½`óà•@½`•`j`    `%`'@"@&```@
•`j`
`$`~~~~~`i`
ÿ`E`
½`$`k`~~~~`c@!``æ@!``¥@!``àz@!``àš@~~~~`

```

`k`~`"ÇıûbñÇ•@~^

`k` ` `#`MÇÂ!pZ•@~^

`k`"``T•;•^%•@~^

`1`~`"~&è0Bf5•@~^

`1```#`òp -°c•@~^

`1`"`,°:•7@•@~^

```

1  # [è, Gÿ¬•@½`•1`    %`~`~@&``$@
••1
$
ÿ`E`
½`$`m`      c@!`  æ@!`  À¢@!`  àz@!`  àš@`~`~

```

`m`~`"~`V `w2ê•@~^

`m` ` `#`Ý•İBo••@~^

`m`"``p`Öå•@~`

'm' # Åœé <y•@½ • 'm % " @& `` @
 • 'm
 \$ ~~~~~~ 1`
 ÿ E`
 ½ \$ n ~~~ `Àc@! ``™@! `Àc@! ``àz@! ``às@~`~`

`n`~`"~μ‡•
g •@~^

`n```#`x6Ÿ•Íâ•@~^

`n`#`äù\$:&F•@½`•`n` `%´ @&```(@
 `.`n`
 `\$`~~~~~`m`
 ÿ`E`
 ½`\$`o`~~~~`àc@!`~~™@!`Àc@!``àz@!``às@~~~~`

`o`~`" `Öãè9•X•@~^

`o`´`#`ê EËÄ.•@~^

`o`""`3p}E,6•@~^

0 # /p) 1 • • @½ • • 0 % ` à" @& `` @
 \$ n`
 y E`
 ½ \$ p d@!™@!À¢@!àz@!àš@~`~`

`p`~`"~-mq•9••@~^

`p`´`#`Ý"´"TŠ•@~^

`p`""`Î0»μwá•@~^

`p`°`#`ú40-òá•@½`•`p`     `%`^^` @&`^^`(@
`·`p`
`\$`^^^^^^^^`o`
ÿ`E`
½`\$`q`^^^^` d@!`^^`™@!`^`À¢@!`^`àz@!`^`àš@`~`~`

`q`~`" `w(=#ÃË•@~^

`q`´´#`• Cüw]•@~^

`q`""`"õ-|]• •@~^

```
q`#      ßçúí°•@½`•`q`      `%`"@&`` `@
•`q
$ ..... p`
ÿ`E`
½`$`r`.....@d@!`™@!`Àc@!`àz@!`às@~`~`
```

`r`~`"~`i<Y*¬‡•@~^

`r``#`"Ýšá-1•@~^

`r`"``•Ũ2h<•@~^

```
\r`# Üä•µI••@½•`r`    `%`"@&`` ` @
\r`•`r`
$~~~~~q`
ÿ`E`
½`$`s`~~~~d@!`™@!`À¢@!`àz@!`às@`~`~`
```

`s`~`"~`Ø. CëD•@~^

`s` ` `#` [%\$^s~•@~^

`s`""`æÜ2,,Mi•@~^

`s`°`#`vJ³WbP•@½`•`s`     `%`^`"@"&`^` `@
`^`^`•`s`
`\$`^`^`^`^`^`^`^`r`
ÿ`^`E`
½`\$`t`^`^`^`^`•d@!`^`^`™@!`^`^`À¢@!`^`^`àz@!`^`^`àš@`^`^`^`^`

`t`~`"``}•Zİw~•@~^

`t` ` `#`•x^o»DÚ•@~^

`t`""`üâ8öÂ •@~^

```
\t`# çû&y•! •@½`•\t      `% `À @&`` (@  
 \t`•\t  
 `$ ..... s`  
ÿ    E`  
\½ $ u     d@!` p-@! ` À¢@! `` x@! ``~@~`
```

`u`~`"~¼ù€•¯5•@~^

`u```#`°â|Õlû•@~^

`u`""`"}øuI~Ú•@~^

```

`u`#`Mé<gE•@½`•`u`      `%`"@"&```@
`•`u`
`$`~~~~~`t`
ÿ`E`
½`$`v`~~~~`Àd@!`p-@!`Àc@!`x@!`~@-`~`

```

`v`~`"°é
D(õ•@~^

`v` ` `#`•AmQÉĐ•@~^

`V`""`"X•1, -E•@~^

v # %ÿ â±••@½ • v % Y@&` (@
\$ u`
ÿ E`
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