

DISSECTIONS

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This challenge is comprised of three similar parts. Letting 123456 represent a six-letter word whose letters are not necessarily distinct, Part I requests a listing of all such words with the property that 1234, 2345, and 3456 are three four-letter words, while Part II requires that 123, 234, 345, and 456 be four three-letter words. (We have 29 of the former and 16 of the latter.) Finally, Part III addresses seven-letter words, 1234567, which yield five three-letter words when dissected into 123, 234, 345, 456, and 567. (There are 5 such in our list.)

Since there are fifty confirmed responses in total, award yourself two points for each specimen you discover.

Part I: 123456 → 1234, 2345, 3456

_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____

Part II: 123456 → 123, 234, 345, 456

_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____

Part III: 1234567 → 123, 234, 345, 456, 567

_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____
_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____	_____	_____	→	_____	_____	_____

DISSECTIONS – Answers

Part I: AMENDS → AMEN, MEND, ENDS
BAREST → BARE, ARES, REST
CHARMS → CHAR, HARM, ARMS
CHARTS → CHAR, HART, ARTS
CHUMPS → CHUM, HUMP, UMPS
CLAMPS → CLAM, LAMP, AMPS
CRAMPS → CRAM, RAMP, AMPS
CRAPES → CRAP, RAPE, APES
DIREST → DIRE, IRES, REST
FOREST → FORE, ORES, REST
HALEST → HALE, ALES, LEST
HONEST → HONE, ONES, NEST
MOLEST → MOLE, OLES, LEST
PALEST → PALE, ALES, LEST
PLEASE → PLEA, LEAS, EASE

PLUMPS → PLUM, LUMP, UMPS
RAREST → RARE, ARES, REST
SCAMPS → SCAM, CAMP, AMPS
SCANTS → SCAN, CANT, ANTS
SCARES → SCAR, CARE, ARES
SCOWLS → SCOW, COWL, OWLS
SLUMPS → SLUM, LUMP, UMPS
SOREST → SORE, ORES, REST
SPARES → SPAR, PARE, ARES
SPARKS → SPAR, PARK, ARKS
STARES → STAR, TARE, ARES
STARTS → STAR, TART, ARTS
TRAMPS → TRAM, RAMP, AMPS
WHEELS → WHEE, HEEL, EELS

Part II: ANTHEM → ANT, NTH, THE, HEM
ANTHER → ANT, NTH, THE, HER
BAGELS → BAG, AGE, GEL, ELS
BOATED → BOA, OAT, ATE, TED
FORAGE → FOR, ORA, RAG, AGE
GOATEE → GOA, OAT, ATE, TEE
ORATED → ORA, RAT, ATE, TED
PALACE → PAL, ALA, LAC, ACE

PAYESS → PAY, AYE, YES, ESS
ROBINS → ROB, OBI, BIN, INS
SEARED → SEA, EAR, ARE, RED
SEATED → SEA, EAT, ATE, TED
SPARED → SPA, PAR, ARE, RED
TEARED → TEA, EAR, ARE, RED
TORAHS → TOR, ORA, RAH, AHS
WASHER → WAS, ASH, SHE, HER

Part III: ANTHEMS → ANT, NTH, THE, HEM, EMS
CAPERED → CAP, APE, PER, ERE, RED
PANTHER → PAN, ANT, NTH, THE, HER
PAPERED → PAP, APE, PER, ERE, RED
TAPERED → TAP, APE, PER, ERE, RED