

Hangman:

clear, clc % starts the code how all programs should

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% List of possible words (know the exact number)
words = {'abandon','ability','able','about','above','abroad','absence'...
'absent','absolute','abstract','abuse','academic','accept'...
'acceptable','acceptance','access','accident','accompany','account'...
'accountant','accurate','accuse','ache','achieve','acquire','acquit'...
'across','act','action','active','activity','actor','actress'...
'actual','adapt','add','addition','address','adequate','adjourn'...
'adjust','administration','admiration','admire','admission','admit'...
'adopt','adult','advance','adventure','advertisement','advise'...
'affair','affect','affectionate','afford','afraid','after'...
'afternoon','again','against','age','agency','agent','aggravation'...
'aggressive','ago','agreement','agriculture','ahead','aid','aim'...
'air','airplane','airport','aisle','alarm','alert','alibi'...
'alimony','alive','all','allergy','allow','allowance','almost'...
'alone','along','alphabet','already','also','alter','alternative'...
'although','altogether','always','amateur','amaze','ambitious'...
'among','amount','analogy','analysis','analyze','and','anger'...
'angle','anguish','animal','ankle','announce','annoying','annual'...
'another','answer','antihistamine','anxiety','anxious','anybody'...
'anything','anywhere','apart','apartment','apologize','apology'...
'apparently','appeal','appear','appearance','appetite','apple'...
'application','apply','appoint','appreciate','approach'...
'appropriate','approval','approximate','aquifer','arch','architect'...
'area','arena','argument','arm','army','around','arrange'...
'arrangement','arrest','arrival','arrive','arrow','art','article'...
'artificial','artist','artistic','as','ashamed','aside','ask'...
'asleep','aspirin','assignment','assist','assistant','associate'...
'assume','at','athlete','athletic','atmosphere','attach','attack'...
'attempt','attend','attention','attitude','attorney','attraction'...
'attractive','audience','aunt','author','authority','automatic'...
'automobile','autumn','available','avenue','average','avoid','awake'...
'award','aware','away','baby','bachelor','back','backhand'...
'backward','bacterium','bad','badly','bag','baggage','bake'...
'balance','ball','band','bandage','bang','bank','bankrupt','bar'...
'barber','bare','bark','barn','barometer','barrier','bartender'...
'base','baseball','basic','basically','basis','basket','basketball'...
'bath','bathe','bathroom','batter','battery','battle','be','beach'...
'beak','bean','bear','beard','beat','beautiful','beauty','because'...
'become','bed','beef','before','beg','begin','beginning','behalf'...
'behave','behavior','behind','belief','believe','bell','belong'...
'below','belt','bench','bend','beneath','benefit','beside','best'...
'bet','better','between','beyond','bibliography','bicycle','bid'...
```

'big', 'bill', 'bind', 'biodegradable', 'biodiversity', 'biology', 'bird'...
'birth', 'bit', 'bite', 'bitter', 'black', 'blade', 'blame', 'blank'...
'blanket', 'bleed', 'blend', 'blind', 'blizzard', 'block', 'blow', 'blue'...
'board', 'boast', 'boat', 'body', 'boil', 'bold', 'bomb', 'bond', 'bone'...
'bonus', 'bookkeeper', 'boot', 'border', 'bore', 'boredom', 'born'...
'borrow', 'boss', 'both', 'bother', 'bottle', 'bottom', 'bounce', 'bound'...
'boundary', 'bow', 'bowl', 'box', 'boy', 'brace', 'brain', 'branch', 'brand'...
'brave', 'bread', 'break', 'breakfast', 'breath', 'breathe', 'breezy'...
'bribe', 'bride', 'bridge', 'brief', 'bright', 'brilliant', 'broken'...
'bronchitis', 'brother', 'bruise', 'budget', 'builder', 'bulkhead'...
'businessman', 'businesswoman', 'butcher', 'cage', 'cake', 'calculate'...
'calender', 'calf', 'call', 'calm', 'camera', 'camp', 'campaign', 'campus'...
'can', 'cancel', 'cancer', 'candidate', 'candy', 'capable', 'capacity'...
'capital', 'captain', 'capture', 'car', 'carbon', 'carcinogen', 'card'...
'care', 'career', 'careful', 'careless', 'carpenter', 'carpet', 'carrot'...
'carry', 'case', 'cashier', 'cast', 'castle', 'cat', 'catalog', 'catch'...
'catcher', 'category', 'cattle', 'cause', 'caution', 'cautious', 'cave'...
'cease', 'ceiling', 'celebrate', 'celebration', 'cell', 'cent', 'center'...
'central', 'century', 'ceremony', 'certainly', 'certainty', 'chain'...
'chair', 'challenge', 'chamber', 'championship', 'chance', 'change'...
'channel', 'chaos', 'chapter', 'character', 'characteristic', 'charge'...
'charity', 'charming', 'chart', 'chase', 'chat', 'cheap', 'cheat', 'check'...
'cheek', 'cheerful', 'cheese', 'chef', 'chemical', 'chemistry', 'chest'...
'chew', 'chicken', 'chief', 'childhood', 'chilly', 'chin', 'chip'...
'chocolate', 'choice', 'choke', 'choose', 'chop', 'church', 'circle'...
'circumstance', 'citation', 'citizen', 'city', 'civil', 'claim'...
'clap', 'clarify', 'classify', 'clause', 'clay', 'clean', 'clear', 'clerk'...
'clever', 'click', 'cliff', 'climate', 'climb', 'clinic', 'clock', 'close'...
'closet', 'clothes', 'clothing', 'cloudy', 'club', 'coach', 'coal', 'coast'...
'coat', 'cockpit', 'code', 'coffee', 'coherent', 'coin', 'cold', 'collapse'...
'collar', 'collect', 'collection', 'college', 'color', 'column', 'comb'...
'combination', 'combine', 'come', 'comedy', 'comfortable', 'command'...
'comment', 'commercial', 'commission', 'committee', 'common'...
'communication', 'community', 'commute', 'company', 'comparison'...
'compassion', 'compete', 'competition', 'competitive', 'complaint'...
'complete', 'completion', 'complex', 'complicated', 'component'...
'compose', 'composition', 'compost', 'compound', 'comprehensive'...
'compulsive', 'computer', 'concentrate', 'concentration', 'concept'...
'concern', 'concert', 'conclude', 'conclusion', 'concrete', 'condition'...
'conduct', 'conference', 'confidence', 'confidence', 'confine', 'confirm'...
'conflict', 'confusion', 'congress', 'conjunction', 'connection'...
'conscious', 'consent', 'conservationist', 'conservative', 'consider'...
'considerable', 'consideration', 'consistent', 'constantly'...
'constitution', 'construction', 'consult', 'consumer', 'contact'...
'contagious', 'contain', 'container', 'contamination', 'contemporary'...
'contentment', 'contest', 'context', 'continent', 'continually'...

'contract','contrast','contribution','control','convenient'...
'conversation','convert','convince','cook','cookie','cool'...
'cooperate','cooperation','cope','copy','copyright','core','corn'...
'corner','corporate','corporation','correct','correspond','cost'...
'cottage','cotton','cough','could','council','count','country'...
'couple','courageous','course','court','cousin','cover','cow'...
'cowardly','crack','craft','crash','crazy','cream','creative'...
'creature','credit','crew','criminal','crisis','crisp','cruel'...
'crutch','curiosity','currency','custody','customs','cut','cynical'...
'dad','daily','dam','damage','damp','dance','danger','dangerous'...
'dare','dark','data','date','daughter','dawn','day','dead','deaf'...
'deal','dear','death','debate','debt','decade','decay','decide'...
'decision','decisive','declare','decline','decongestant','decorate'...
'decoration','decrease','deep','defeat','defend','defendant'...
'defense','defiance','deficit','define','definite','definition'...
'deforestation','degree','delay','deliberate','delicate'...
'delicious','delight','deliver','demand','democracy','demonstrate'...
'dentist','deny','department','departure','dependence','deposit'...
'depress','depression','depth','derive','describe','description'...
'desert','deserve','design','designer','desire','desk','desperate'...
'despite','destroy','destruction','detail','determine','develop'...
'developer','development','device','devote','diamond','diary'...
'dictionary','die','diet','different','difficult','dig'...
'dimension','dinner','dip','direct','direction','dirt','dirty'...
'disagreement','disappear','disappointment','disapproval'...
'disapprove','disaster','disc','discipline','discovery','discuss'...
'discussion','disease','disgust','dish','dishonest','dislike'...
'dismay','dismiss','display','disposable','dispute','disrespect'...
'dissolve','distance','distant','distinct','distinguish','distress'...
'distribute','distribution','district','distrust','disturb','dive'...
'diversity','divide','division','divorce','dizzy','do','doctor'...
'document','dog','doll','dollar','domestic','dominant','door','dorm'...
'dot','double','doubt','down','draft','dribble','dugout','dusk'...
'each','eager','ear','earlier','earlobe','early','earn','earth'...
'ease','east','easygoing','eat','ecology','economy','edge','edit'...
'edition','education','effect','effective','effort','egg','either'...
'elastic','elbow','election','electrician','electronic','element'...
'else','elsewhere','embarrass','embarrassment','emerge','emergency'...
'emission','emotion','emotional','emphasis','emphasize','empire'...
'employ','employee','employment','empty','enable','encounter'...
'encourage','end','endangered','enemy','energy','engage','engine'...
'engineer','enjoy','enjoyment','enormous','enough','ensure','enter'...
'entertain','entertainment','enthusiasm','enthusiastic','entire'...
'entrance','entry','envelope','environment','environmentalist'...
'envy','equal','equipment','equivalent','erase','erosion','error'...
'escape','especially','essay','essential','establish','estate'...

'estimate','ethnic','evaluate','even','evening','event','eventually'...
'ever','every','everybody','everyday','everyone','everything'...
'everywhere','evidence','evident','evil','exact','exaggerate','exam'...
'examination','examine','exceed','excellent','except','exception'...
'excess','exchange','excitement','exclude','excuse','executive'...
'exercise','extinct','extinction','extroverted','eyebrow','eyelash'...
'eyelid','fabric','face','factor','faculty','fail','failure','faint'...
'fair','faith','fake','fall','false','fame','familiar','family'...
'famous','fan','fancy','far','farmer','fashion','fast','fasten'...
'fat','fate','father','fault','favor','favorite','fearful','feather'...
'feature','federal','fee','feed','feel','feeling','fellow','felon'...
'female','fence','festival','fever','few','fiber','field','fierce'...
'fight','figure','fill','filmmaker','final','finally','financial'...
'find','fine','finger','finish','fire','firm','first','fiscal'...
'fish','fisherman','fit','fix','flag','flame','flash','flat'...
'flavor','flavor','flesh','flexible','flight','float','flood'...
'floor','flour','flow','flower','flu','fluid','flurries','fly'...
'focus','fog','fold','football','footnote','forearm','forecast'...
'forehead','forever','formerly','fossil','fraternity','fraud'...
'free','frequently','friendly','frustration','fun','furniture'...
'fury','gain','gallon','game','gap','garage','garbage','garden'...
'gas','gate','gather','gear','gender','gene','general','generate'...
'generation','generosity','generous','gentle','gentleman','genuine'...
'geography','geothermal','get','giant','gift','girl','give','glad'...
'glass','global','glory','glove','glow','glue','go','goal'...
'goalkeeper','god','gold','golden','good','goodbye','govern'...
'government','governor','grab','graceful','grade','gradual'...
'graduate','grain','grammar','grand','grandchild','granddaughter'...
'grandfather','grandfather','grandmother','grandparent','grandson'...
'grant','grass','grateful','grave','gravity','gray','great','greed'...
'green','greet','gregarious','grief','grind','grocery','groom'...
'grocery','groom','groove','ground','group','grow','guarantee'...
'guard','guardian','guess','guest','guide','guilty','gullible','gum'...
'gun','gust','guy','habitat','hail','hair','half','hammer','hand'...
'handle','handsome','handwriting','hang','happen','happy','harbor'...
'hard','hardly','hardware','harm','harsh','harvest','hat','hatch'...
'hatred','hazy','head','headache','heal','health','hear','hearing'...
'heart','heat','heaven','heavy','heel','height','hello','helpful'...
'herbicide','hero','herself','hesitate','hide','high','highlight'...
'highway','hill','himself','hint','hip','hire','historical'...
'history','hit','hobby','hockey','hold','hole','holiday','hollow'...
'holy','home','homework','honest','honor','hook','hope','hopeful'...
'horizontal','horn','horror','horse','hose','hospital','host'...
'hostility','hot','hotel','hour','household','how','however','hug'...
'huge','humid','humidity','hurricane','husband','ice','idea','ideal'...
'identical','identification','identify','ignore','ill','illegal'...

'illness', 'image', 'imaginary', 'imagination', 'imitate', 'immediate'...
'immoral', 'impact', 'impatience', 'import', 'important', 'impossible'...
'impress', 'impressive', 'improve', 'impulsive', 'inch', 'incident'...
'include', 'income', 'increase', 'indeed', 'independence', 'independent'...
'index', 'indicate', 'indict', 'indictment', 'indigestion', 'individual'...
'industry', 'inevitable', 'infant', 'infect', 'infection', 'infield'...
'inflation', 'influence', 'inform', 'information', 'ingredient'...
'initial', 'initiative', 'injection', 'injure', 'injury', 'ink', 'inmate'...
'inner', 'innocent', 'insect', 'insert', 'inside', 'install', 'instance'...
'instant', 'instead', 'institute', 'instruction', 'instrument'...
'insult', 'insurance', 'intellectual', 'intelligent', 'intend', 'intense'...
'intention', 'interest', 'interested', 'interior', 'interjection'...
'internal', 'international', 'interpret', 'interrupt', 'interval'...
'interview', 'into', 'introduce', 'introduction', 'introduction'...
'introverted', 'invade', 'invent', 'investigate', 'investment'...
'itinerary', 'jacket', 'jail', 'jam', 'jar', 'jaw', 'jealous', 'jelly'...
'jet', 'jewel', 'job', 'join', 'joint', 'joke', 'journal', 'joy', 'judge'...
'judgement', 'juice', 'jumbo', 'jump', 'junior', 'jurisdiction', 'juror'...
'jury', 'just', 'justice', 'keen', 'keep', 'key', 'kick', 'kickoff', 'kid'...
'kill', 'kind', 'kindness', 'king', 'kingdom', 'kiss', 'kitchen', 'knee'...
'kneel', 'knife', 'knit', 'knock', 'knot', 'know', 'knowledge', 'knuckle'...
'label', 'labor', 'laboratory', 'lack', 'ladder', 'lady', 'lake', 'lamp'...
'land', 'landfill', 'landing', 'landlord', 'lane', 'language', 'large'...
'last', 'late', 'lately', 'later', 'latter', 'laugh', 'lavatory', 'law'...
'lawyer', 'lay', 'layer', 'layoff', 'lazy', 'lead', 'leader', 'leaf'...
'league', 'leak', 'lean', 'learn', 'least', 'leather', 'leave', 'lecture'...
'left', 'leg', 'legal', 'lemon', 'lend', 'length', 'less', 'lesson', 'let'...
'letter', 'level', 'liberty', 'library', 'license', 'lid', 'lie', 'life'...
'lift', 'light', 'lightning', 'like', 'limit', 'line', 'lip', 'liquid'...
'list', 'listen', 'literary', 'literature', 'litigate', 'little', 'live'...
'load', 'local', 'locate', 'lock', 'locker', 'logic', 'loneliness'...
'lonely', 'long', 'longing', 'look', 'loose', 'lord', 'lose', 'loss', 'lost'...
'lot', 'loud', 'love', 'low', 'lower', 'loyal', 'luck', 'luggage', 'lump'...
'lunch', 'lung', 'lust', 'machine', 'mad', 'magazine', 'magic', 'mail'...
'main', 'maintain', 'major', 'majority', 'make', 'male', 'malice', 'man'...
'manage', 'management', 'manager', 'manner', 'manufacture', 'many', 'map'...
'march', 'margin', 'mark', 'marriage', 'mass', 'master', 'match', 'mate'...
'material', 'mathematics', 'matriculate', 'matter', 'maximum', 'may'...
'maybe', 'mayor', 'meal', 'mean', 'meaning', 'meanwhile', 'measurement'...
'meat', 'mechanical', 'mechanism', 'media', 'mediation', 'medical'...
'medication', 'medicine', 'medium', 'meet', 'meeting', 'melt'...
'membership', 'memory', 'mental', 'mention', 'menu', 'mercy', 'mere'...
'merry', 'mess', 'message', 'metal', 'metaphor', 'meter', 'methane'...
'method', 'middle', 'midnight', 'might', 'mild', 'mile', 'military'...
'milk', 'mill', 'mind', 'mine', 'mineral', 'minimum', 'minister', 'minor'...
'minute', 'miracle', 'mirror', 'misery', 'miss', 'mission', 'mistake'...

'mix','mixture','mobile','mode','model','moderate','modern'...
'modest','mom','moment','money','monitor','month','mood','moon'...
'moral','more','morning','most','mother','motion','motor','mount'...
'mountain','mouse','move','movement','movie','much','mud','muggy'...
'multiply','murder','muscle','museum','music','musical','must'...
'mustache','mutual','mysterious','mystery','nail','naked','name'...
'narrow','national','native','natural','naturally','nature','nausea'...
'navy','near','nearby','nearly','neat','necessary','neck','need'...
'needle','negative','negligence','negligent','neighbor'...
'neighborhood','neither','nephew','nerve','nervous','nest','net'...
'network','neutral','never','nevertheless','new','newly','news'...
'newspaper','next','nice','niece','night','no','nobody','noise'...
'noisy','noon','nor','normal','normally','nostril','notebook'...
'notes','now','nuclear','nurse','nutritionist','oath','obey'...
'object','objection','objective','observation','observe','obsessive'...
'obtain','obvious','occasion','occupation','occupy','occur','ocean'...
'odd','odor','off','offend','offense','offensive','offer','officer'...
'official','often','oil','old','once','one','only','onto','open'...
'opening','operate','operation','opinion','opponent','opportunity'...
'oppose','opposite','opposition','optimistic','option','orange'...
'order','ordinary','organ','organic','organization','organize'...
'origin','original','other','otherwise','ought','ounce','our','out'...
'outcome','outdoors','outgoing','overbook','overcast','oxygen'...
'ozone','pace','pack','package','pad','page','painful','paint'...
'painting','pair','pale','palm','pan','panel','panic','pants'...
'paper','parade','paragraph','parallel','paraphrase','parent','park'...
'parliament','part','participate','particular','partly','partner'...
'party','pass','passage','passion','passport','past','paste','pat'...
'patch','patent','path','patience','patient','pause','pay'...
'payment','peace','peaceful','peak','peel','pen','penalty'...
'pencil','penny','people','pepper','percent','perfect','perform'...
'performance','performer','perfume','perhaps','period','permanent'...
'permission','permit','persistent','personality','persuade'...
'pessimism','pessimistic','pest','pesticide','pet','petal'...
'petroleum','pharmacist','phase','philosophy','phone'...
'photograph','photographer','phrase','physical','physician','physics'...
'piano','pick','picture','piece','pig','pile','pill','pilot','pin'...
'pink','pinkie','pipe','pitch','pitcher','pity','place','plain'...
'plan','planet','plant','plastic','plate','platform','play','player'...
'plea','pleasant','please','pleasure','plenty','plot','plumber'...
'plus','pocket','poem','poetry','point','poison','poisonous','pole'...
'police','policy','polish','polite','politics','pollution','pompous'...
'pond','pool','poor','pop','popular','population','port','portion'...
'pose','position','positive','possess','possession','possibility'...
'possible','post','postage','postgraduate','pot','potato'...
'potential','pound','pour','poverty','power','practical','praise'...

'pray', 'precipitation', 'precise', 'predict', 'prefer', 'preference'...
'pregnant', 'prejudice', 'premise', 'preparation', 'prepare'...
'preposition', 'prerequisite', 'prescribe', 'presence', 'present'...
'preserve', 'president', 'press', 'pressure', 'pretend', 'pretty'...
'prevent', 'previous', 'price', 'pride', 'primary', 'princess'...
'principal', 'print', 'prior', 'prison', 'prisoner', 'private'...
'privilege', 'prize', 'pro', 'probable', 'probation', 'problem'...
'procedure', 'proceed', 'professor', 'profit', 'programmer', 'progress'...
'promotion', 'propeller', 'property', 'prosecute', 'psychologist', 'puck'...
'pupil', 'qualification', 'qualify', 'quality', 'quantity', 'quarter'...
'quarterly', 'queen', 'question', 'quick', 'quiet', 'quit', 'quite', 'quiz'...
'quotation', 'quote', 'race', 'racial', 'radio', 'rage', 'rail', 'railroad'...
'rain', 'raise', 'range', 'rank', 'rapid', 'rare', 'rarely', 'rash', 'rate'...
'rather', 'ratio', 'rational', 'raw', 'reach', 'react', 'reaction', 'read'...
'reader', 'ready', 'real', 'realistic', 'reality', 'realize', 'really'...
'rear', 'reason', 'reasonable', 'recall', 'receive', 'recent', 'reception'...
'receptionist', 'recession', 'recognition', 'recognize', 'recommend'...
'record', 'recover', 'recreational', 'recycle', 'red', 'reduce'...
'reduction', 'refer', 'referee', 'reference', 'reflect', 'reform'...
'refrigerator', 'refuse', 'regard', 'region', 'register', 'regret'...
'regular', 'regulation', 'reject', 'relate', 'relation', 'relationship'...
'relative', 'relax', 'release', 'relevant', 'reliable', 'relief'...
'relieve', 'religion', 'rely', 'remain', 'remark', 'remarkable'...
'remarkable', 'remember', 'remind', 'remove', 'renewable', 'rent'...
'repair', 'repeat', 'replace', 'reply', 'report', 'represent'...
'representative', 'reproduce', 'republic', 'reputation', 'request'...
'require', 'requirement', 'rescue', 'research', 'reserve', 'resident'...
'resign', 'resist', 'resistance', 'resolve', 'resource', 'respect'...
'respond', 'response', 'responsibility', 'rest', 'restaurant', 'restore'...
'restrain', 'restrict', 'result', 'retain', 'retirement', 'return'...
'reveal', 'reverse', 'review', 'revise', 'revision', 'revolution'...
'reward', 'room', 'roommate', 'round', 'runway', 'ruthless', 'sacrifice'...
'sad', 'sadness', 'safe', 'safety', 'sail', 'salad', 'salary', 'sale'...
'salesman', 'saleswoman', 'salt', 'same', 'sample', 'sand', 'sandwich'...
'sarcastic', 'satisfaction', 'satisfy', 'sauce', 'save', 'savings', 'say'...
'scale', 'scalp', 'scare', 'scenery', 'schedule', 'scheme', 'school'...
'science', 'scientist', 'scissors', 'scope', 'scoreboard', 'scorn'...
'scratch', 'scream', 'screen', 'screw', 'sea', 'seal', 'search', 'season'...
'seat', 'second', 'secondary', 'secret', 'secretary', 'secretive'...
'section', 'secure', 'security', 'see', 'seed', 'seek', 'seem', 'seize'...
'seldom', 'select', 'selection', 'self', 'selfish', 'sell', 'semester'...
'semifinal', 'senate', 'send', 'senior', 'sense', 'sensible', 'sensitive'...
'sentence', 'separate', 'series', 'serious', 'servant', 'serve', 'service'...
'session', 'set', 'settle', 'several', 'severe', 'sew', 'shade', 'shadow'...
'shake', 'shall', 'shallow', 'shame', 'shape', 'share', 'sharp', 'shave'...
'sheep', 'sheet', 'shelf', 'shell', 'shelter', 'shift', 'shin', 'shine'...

'ship', 'shirt', 'shock', 'shoe', 'shoot', 'shop', 'shore', 'short', 'shot'...
'should', 'shoulder', 'shout', 'show', 'shower', 'shut', 'shy', 'sick'...
'side', 'sight', 'sign', 'signal', 'signature', 'significant', 'silence'...
'silent', 'silk', 'silly', 'silver', 'simple', 'sin', 'since', 'sincere'...
'sing', 'singer', 'single', 'sink', 'sir', 'sister', 'sit', 'site'...
'situation', 'size', 'skill', 'skin', 'skirt', 'sky', 'slang', 'slap'...
'sleep', 'sleeve', 'slice', 'slide', 'slight', 'slip', 'slope', 'slow'...
'small', 'smart', 'smell', 'smile', 'smog', 'smoke', 'smooth', 'snake'...
'sneeze', 'snow', 'so', 'soap', 'sociable', 'society', 'sock', 'soft'...
'software', 'soil', 'solar', 'soldier', 'solid', 'solution', 'solve'...
'some', 'somebody', 'somehow', 'someone', 'something', 'sometimes'...
'somewhat', 'somewhere', 'son', 'song', 'soon', 'sore', 'sorority'...
'sorrow', 'sorry', 'sort', 'soul', 'sound', 'soup', 'sour', 'source'...
'south', 'space', 'spare', 'speak', 'speaker', 'special', 'specific'...
'specify', 'spectator', 'speech', 'speed', 'spell', 'spend', 'spending'...
'spice', 'spicy', 'spill', 'spin', 'spirit', 'spiritual', 'spite', 'splint'...
'split', 'spoil', 'spoon', 'sport', 'sportscaster', 'spot', 'sprain'...
'spray', 'spread', 'spring', 'square', 'squeeze', 'stable', 'stadium'...
'staff', 'stage', 'stair', 'stamp', 'stand', 'standard', 'standby', 'star'...
'stare', 'start', 'state', 'statement', 'station', 'statue', 'status'...
'statute', 'stay', 'steady', 'steal', 'steam', 'steel', 'steep', 'steer'...
'stem', 'step', 'stepfather', 'stepmother', 'sticky', 'stiff', 'still'...
'sting', 'stir', 'stitch', 'stock', 'stomach', 'stone', 'stop', 'storage'...
'store', 'storm', 'story', 'stove', 'straight', 'strain', 'stranger'...
'strap', 'strategy', 'stream', 'street', 'strength', 'strengthen'...
'stress', 'stretch', 'strict', 'strike', 'string', 'strip', 'stripe'...
'stroke', 'strong', 'structure', 'struggle', 'stubborn', 'student'...
'study', 'stuff', 'stupid', 'style', 'subject', 'submit', 'substance'...
'substantial', 'substitute', 'succeed', 'successful', 'such', 'suck'...
'sudden', 'sue', 'suffer', 'sufficient', 'sugar', 'suggestion', 'suit'...
'suitable', 'sum', 'summary', 'summer', 'sunny', 'sunshine', 'superficial'...
'support', 'surgeon', 'sustainable', 'syllabus', 'sympathy', 'table'...
'tactful', 'tactless', 'tail', 'take', 'takeoff', 'talent', 'talk', 'tall'...
'tank', 'tap', 'tape', 'target', 'task', 'taste', 'tax', 'taxi', 'tea'...
'teach', 'teacher', 'team', 'teammate', 'tear', 'technical', 'technique'...
'technology', 'telephone', 'television', 'tell', 'temper', 'temperature'...
'temple', 'temporary', 'tempt', 'tenant', 'tendency', 'tendon', 'tense'...
'tension', 'tent', 'term', 'terrible', 'territory', 'terror', 'test'...
'testify', 'text', 'textbook', 'texture', 'thanks', 'that', 'theater'...
'their', 'them', 'theme', 'themselves', 'theory', 'therapist', 'there'...
'therefore', 'thermometer', 'thesis', 'thick', 'thief', 'thigh', 'thin'...
'thing', 'thirsty', 'this', 'thorough', 'though', 'thread', 'threat'...
'throat', 'through', 'throughout', 'throw', 'thumb', 'thunder'...
'thunderstorm', 'thus', 'ticket', 'tide', 'tie', 'tight', 'tilt', 'time'...
'tin', 'tiny', 'tip', 'tire', 'tired', 'title', 'today', 'toe', 'together'...
'toilet', 'tomorrow', 'tone', 'tongue', 'tonight', 'tool', 'tooth', 'top'...

'topic','tornado','total','touch','tough','tour','tournament'...
'toward','towel','tower','town','toxic','toy','trace','track'...
'trade','tradition','traditional','traffic','trail','train'...
'trainer','training','transcript','transfer','transform'...
'transition','translation','translator','transparent','transport'...
'transportation','trap','trash','travel','treasure','treat'...
'treatment','tree','trend','trial','triangle','tribe','trick'...
'trimester','trip','troop','trophy','tropical','trouble','tuition'...
'turbulence','ugly','umbrella','umpire','unable','uncle','under'...
'underdog','undergo','undergraduate','underground','underneath'...
'understanding','undertake','undertaker','undo','unemployment'...
'unfortunately','uniform','union','unique','unit','unite'...
'university','unknown','unless','unlikely','until','unusual','up'...
'upon','upper','upset','upstairs','upward','urban','urge','urgent'...
'use','useful','user','usual','usually','vacation','valley'...
'valuable','value','variation','variety','various','vary','vast'...
'vegetable','vehicle','verb','verdict','version','very','vessel'...
'veterinarian','victim','victory','video','videographer','view'...
'village','violence','violent','virtually','virtue','virus'...
'visible','vision','visit','visitor','voice','volume','vomit','vote'...
'wage','waist','wait','waiter','waitress','wake','walk','wall'...
'wallet','wander','want','war','warm','warning','wash','waste'...
'watch','water','wave','wax','way','weakness','wealth','weapon'...
'wear','weather','weave','web','wedding','weekend','weekly','weigh'...
'weight','welcome','welfare','well','west','western','wetland'...
'what','whatever','wheat','wheel','where','whether','which','while'...
'whisper','whistle','white','who','whole','whom','whose','why'...
'widely','widespread','width','wife','wild','wildlife','willing'...
'win','wind','window','windy','wine','wing','winner','winter','wipe'...
'wire','wisdom','wise','wish','withdraw','within','without'...
'witness','witty','wolf','woman','wonder','wonderful','wooden'...
'wool','word','work','worker','world','worry','worse','worship'...
'worst','worth','would','wound','wrap','wrath','wreck','wrinkle'...
'wrist','write','writer','writing','wrong','yard','yawn','year'...
'yearly','yell','yellow','yes','yesterday','yet','young','youth'...
'zero','zone','zoo'};

% Words found on <http://learnersdictionary.com/3000-words/alpha/e/4>

% word of wise if you decide to make one, just use an m-file

num = rand; % chooses a random number

num = 2744 * num; % The 2744 is for the total # of words

num = ceil(num); % rounds the numbers to be positive integers

answer = words(num); % the answer is the selected word

answer = char(answer); % converts answer to characters

```

len = length(answer); % sets len as length of answer
for i = 1 : len; % the i is equal to the length of answer (1-length)
let(i) = '*'; % changes each character/letter into an *
end
Word = let % display word in * form to player

% lines 406 through 416 are used to generate the word
% lines 421 through 487 are used to actually play the game

m = 1; % m = Misses
fig1 = imshow('hang_start.jpg');

while (m < 7)
fprintf('\n Type a letter and hit enter%\n', m)
ch = input(':','s'); % asks for input after : as a string
n = 0; % used to determine if letter is correct later
for i = 1 : len
if (ch == answer(i)) % this whole if statement is used decide
let(i) = ch; % if the entered character is correct or
n = n + 1; % not by adding a 1 to n if it's right
end % also if the letter is right it changes from
end % an * to the letter

if n == 0; % if n true equals 0 then the letter was wrong
fprintf('\n Incorrect Letter\n')
m = m + 1; %adds one miss
Word = let %display the word as of current
if m == 2 % if misses is 2
FigM1 = imshow('hang_1.jpg');
end
if m == 3 % if misses is 3
FigM2 = imshow('hang_2.jpg');
end
if m == 4 % if misses is 4
FigM3 = imshow('hang_3.jpg');
end
if m == 5 % if misses is 5
FigM4 = imshow('hang_4.jpg');
end
if m == 6 % if misses is 6
FigM5 = imshow('hang_5.jpg');
end
if m == 7 % if misses is 7
fprintf('\n You Lose\n')
FA = answer; % displays correct/final answer
fprintf('\n Correct Answer: %s \n',FA)

```

```
FigFinal = imshow('hang_6L.jpg');
end

else
fprintf('\n Correct Letter\n')
Word = let %displays word as of current progress
end
if Word == answer % for when what has been entered matches the answer
fprintf ('\n You Win\n')
if m == 1 % if misses is 1
FigW1 = imshow('hang_0W.jpg');
end
if m == 2 % if misses is 2
FigW2 = imshow('hang_1W.jpg');
end
if m == 3 % if misses is 3
FigW3 = imshow('hang_2W.jpg');
end
if m == 4 % if misses is 4
FigW4 = imshow('hang_3W.jpg');
end
if m == 5 % if misses is 5
FigW5 = imshow('hang_4W.jpg');
end
if m == 6 % if misses is 6
FigW6 = imshow('hang_5W.jpg');
end
break % force ends the while loop to end the game
end
end
```