

```

1 C:\Users\IUT-Cmr-Thesis-CSE\Desktop\pythonProject\venv\
  Scripts\python.exe C:/Users/IUT-Cmr-Thesis-CSE/Desktop/
  pythonProject/main.py
2 2021-03-02 22:51:00.283257: I tensorflow/stream_executor/
  platform/default/dso_loader.cc:49] Successfully opened
  dynamic library cudart64_110.dll
3 Dataset
4 (102979, 8)
5 ['Unnamed: 0' 'sentence' 'act_label' 'emotion_label' '
  speaker' 'conv_id'
6 'utt_id' 'emotion_index']
7 =====
8 [nltk_data] Downloading package stopwords to C:\Users\IUT-
  Cmr-Thesis-
9 [nltk_data]      CSE\AppData\Roaming\nltk_data...
10 [nltk_data] Package stopwords is already up-to-date!
11 C:\Users\IUT-Cmr-Thesis-CSE\Desktop\pythonProject\venv\lib
  \site-packages\sklearn\utils\validation.py:70:
FutureWarning: Pass input=['who', 'such', 'ain', "it's", 'isn',
  'll', 'was', "she's", 'it', 'haven', 'this', 'm',
  'couldn', 'themselves', 've', 'doesn', 'yours', 'being',
  'of', 'over', 'itself', 'how', 'don', 'if', 'each', 'just',
  'most', "needn't", "you've", 'because', 'than', 'shan',
  'ours', 'until', 'other', 'same', 'our', 'she', 'once',
  'can', 'there', 's', 'you', 'what', 'further', 'her',
  'me', 'an', 'him', 'that', 'for', "you're", 'all', "you'd",
  'from', 'some', 'then', 'off', 'out', 'be', 'why',
  'which', 'mightn', 't', 'doing', 'am', 'at', 'does', "you'll",
  "mightn't", 'had', 'were', 'by', 'them', "that'll",
  'with', 'more', 'd', "should've", 'i', 'himself', 'my',
  'in', 'o', 'those', 'or', 'do', 'mustn', 'weren', 'hasn',
  'wasn', 'up', 'we', 'after', 'when', 'too', 'shouldn',
  'on', 'yourself', 'as', 'wouldn', 'here', 'again', 'have',
  'did', 'into', 'his', 'through', 'and', 'a', 'myself',
  'having', 'ma', 'been', 'hadn', 'where', 'hers', 'its',
  'whom', 'about', 'to', 'herself', 'your', 'he', 'only',
  'the', 'theirs', 'now', 're', 'while', 'needn', 'aren',
  'won', 'these', 'they', 'is', 'ourselves', 'very', 'few',
  'are', 'didn', 'has', 'should', 'own', 'yourselves', 'their',
  'so', 'will', 'y'] as keyword args. From version 1.0 (
  renaming of 0.25) passing these as positional arguments
  will result in an error
12     warnings.warn(f"Pass {args_msg} as keyword args. From
  version "
13 179
14 Vectorized Dataset
15 <class 'scipy.sparse.csr.csr_matrix'>

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16 (102979, 18566)
17 =====
18 18566
19 ['00', '000', '007', '0085', '01', '010', '01088256798', '011', '01563', '01705', '0234', '04', '0411', '05', '050920', '053', '060', '06230221', '075', '08', '09', '09112223', '099', '0h', '0k', 'Okay', '0n', '10', '100', '1000', '10000', '1005', '100715', '1008', '10086', '100m', '100ml', '100rmb', '100th', '101', '1010', '1019', '102', '1021', '103', '104', '105', '1050', '1050ft', '106', '108', '1088', '109', '10am', '10kg', '10s', '10th', '11', '110', '1100', '1106', '110cm', '112', '1127', '113', '115', '1150', '117', '1177', '1199866', '1199886', '11am', '11th', '12', '120', '1200', '12000', '1201', '1202', '1205', '120cm', '120mm', '1212', '1218', '123', '12300', '1234', '124', '125', '1256', '1267', '129', '12c', '12th', '13', '130', '1305', '1308', '1314', '132', '1336', '134986', '135', '13661306917', '137', '138', '13811658', '1388', '139', '13924774026', '1394', '139xxxxx345', '13th', '14', '140', '1400rmb', '1405', '1408', '1419', '1425', '1433', '1446', '1492', '14th', '15', '150', '1500', '15066688866', '151', '15273478841', '1552', '1564', '1569324873', '1588', '158cm', '15mins', '15minutes', '15th', '16', '160', '1600', '1616', '162', '16211469', '1639', '164', '1644', '165', '166', '167', '168', '16th', '17', '1700', '1739', '175', '176', '1780', '17th', '18', '180', '1805', '1808', '180c', '1818', '1825', '1830', '184796', '185', '1862', '1867', '1879', '1886', '1889', '189', '1890', '1892', '1893', '18cm', '18k', '18th', '19', '190', '1910', '1911', '1916', '1917', '1920', '1920s', '1930', '1932', '1940', '1944', '1949', '195', '1955', '1960', '1963', '1965', '1969', '1970', '1976', '1977', '1978', '198', '1980', '1980s', '1982', '1984', '1985', '1986', '1987', '1988', '1989', '199', '1991', '1992', '1993', '1994', '1995', '1996', '1997', '1998', '1999', '19th', '1e', '1poj7403', '1st', '1y', '20', '200', '2000', '200085', '2001', '2002', '2003', '2004', '2005', '2006', '2007', '2008', '2009', '200yuan', '201', '2010', '2012', '202', '2022', '203', '20310', '204', '205', '2065', '207', '208', '209', '20am', '20kg', '20s', '20th', '20tha', '20x', '21', '210', '2101', '212', '2123456', '213', '2135', '2135367', '214', '215', '216', '218', '21st', '22', '220', '220150', '221', '2210', '2213', '222', '2244', '225', '228', '2289', '22nd', '23', '230', '2300', '231', '232', '2323', '233', '2331', '2345', '235', '2356', '236', '2367', '2368', '238', '23rd', '23th', '24', '240', '241', '2424', '2453', '2456', '2477', '249', '250'

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| 19 | , | '70th', | '71', | '710', | '711', | '712', | '713', | '72', | '725 |
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| | , | 'abide', | 'abigail', | 'abilities', | 'ability', | | | | 'able' |
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| | , | 'academically', | 'academy', | 'acc', | 'accelerate', | | | | 'accelerated' |
| | , | 'accelerator', | 'accent', | 'accentuates', | | | | | 'accept' |
| | , | 'acceptable', | 'acceptance', | 'accepted', | | | | | 'accepting' |
| | , | 'accepts', | 'access', | 'accessed', | 'accesses', | | | | 'accessible' |
| | , | 'accession', | 'accessories', | 'accident', | | | | | 'accession' |
| | , | 'accidental', | 'accidentally', | 'accidentals', | 'accidents', | | | | 'accidental' |
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| | , | 'accomplishments', | 'accord', | 'accordance', | 'accorded', | | | | 'accomplished' |
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| | , | 'accountant', | 'accountants', | 'accounting', | | | | | 'accountant' |
| | , | 'accountingthrough', | 'accounts', | 'accumulate', | 'accumulated', | | | | 'accountingthrough' |
| | , | 'accumulation', | 'accuracy', | 'accurate', | 'accurately', | | | | 'accuracy' |
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| | , | 'achieve', | 'achieved', | 'achievement', | 'achievements', | | | | 'achieve' |

19 'achiever', 'achieving', 'achilles', 'aching', 'acid', 'acidic', 'acidity', 'acknowledge', 'acknowledgements', 'acknowledgments', 'acliff', 'acme', 'acoustic', 'acoustics', 'acquaint', 'acquaintance', 'acquaintances', 'acquainted', 'acquired', 'acquiring', 'acquisition', 'acre', 'acrimonious', 'acrobat', 'acrobatics', 'acronym', 'acrophobia', 'across', 'act', 'acted', 'acting', 'action', 'actioncomedy', 'actions', 'activate', 'activated', 'activation', 'active', 'actively', 'activeness', 'actives', 'activities', 'activity', 'actor', 'actors', 'actress', 'actresses', 'acts', 'actual', 'actually', 'actulty', 'acumen', 'acupuncture', 'acute', 'ad', 'adam', 'adams', 'adapt', 'adaptability', 'adapted', 'add', 'added', 'addi', 'addicted', 'addiction', 'addictions', 'addictive', 'addicts', 'adding', 'addison', 'addition', 'additional', 'additionally', 'address', 'addressed', 'addressee', 'addresses', 'adds', 'adequate', 'adhesive', 'adidas', 'adieu', 'adjacent', 'adjective', 'adjoining', 'adjust', 'adjusted', 'adjustment', 'adjustments', 'admin', 'administer', 'administration', 'administrative', 'administrators', 'adminstration', 'admiral', 'admirals', 'admiration', 'admire', 'admired', 'admirer', 'admires', 'admiring', 'admission', 'admissions', 'admit', 'admitted', 'admittedly', 'admitting', 'adopt', 'adopted', 'adorable', 'adore', 'adored', 'adores', 'adoring', 'adornments', 'adriano', 'ads', 'adult', 'adults', 'advance', 'advanced', 'advancement', 'advancements', 'advancing', 'advantage', 'advantages', 'adventure', 'adventures', 'adventuresome', 'adventurous', 'advert', 'advertise', 'advertised', 'advertisement', 'advertisements', 'advertisers', 'advertising', 'advice', 'advices', 'advisable', 'advise', 'advised', 'advisements', 'adviser', 'advisers', 'advises', 'advisor', 'advisors', 'advocate', 'ae', 'aer', 'aerial', 'aerobic', 'aerobics', 'aesthetic', 'aesthetics', 'af', 'afer', 'affair', 'affairs', 'affect', 'affected', 'affecting', 'affection', 'affectionate', 'affects', 'affiliations', 'affirm', 'affirmative', 'afford', 'affordability', 'affordable', 'afforded', 'afghan', 'aficionado', 'aficionados', 'afraid', 'africa', 'african', 'africans', 'afro', 'afternoon', 'afternoons', 'afterward', 'afterwards', 'against', 'agates', 'age', 'aged', 'agencies', 'agency', 'agenda', 'agent', 'agents', 'ages', 'aggravated', 'aggregate', 'aggressive', 'aggressiveness', 'agile', 'agility', 'aging', 'agnostic', 'ago', 'agonise', 'agood', 'agree', 'agreeable', 'agreed', 'agreeing', 'agreement', 'agreements', 'agrees', 'agricultural', 'agriculture', 'ah', 'aha', '

19 ahahah', 'ahead', 'ahem', 'ahh', 'ahhchooo', 'ahhhhhhhh', 'ahhs', 'ahold', 'aid', 'aidan', 'aider', 'aids', 'ailments', 'aim', 'aimed', 'aims', 'ain', 'air', 'airbags', 'aircraft', 'aires', 'airfare', 'airhead', 'airline', 'airlines', 'airmail', 'airplane', 'airplanes', 'airport', 'airs', 'airsick', 'airsickness', 'airway', 'airways', 'aisle', 'aisles', 'aitoba', 'akha', 'akim', 'akimbo', 'al', 'alabama', 'alan', 'alands', 'alarm', 'alaska', 'albans', 'albe', 'albert', 'alberta', 'album', 'albums', 'alcohol', 'alcoholic', 'ale', 'alecia', 'alembics', 'alert', 'alessio', 'alex', 'alexander', 'alfredo', 'algebra', 'ali', 'alias', 'alibi', 'alice', 'alien', 'aliens', 'aligned', 'alignment', 'alike', 'alimony', 'alisan', 'alison', 'alive', 'allan', 'allay', 'allegedly', 'allen', 'allergic', 'allergies', 'allergy', 'alleviate', 'alley', 'allied', 'allies', 'alligator', 'allison', 'allocate', 'allocated', 'allocations', 'allow', 'allowance', 'allowances', 'allowed', 'allowing', 'allows', 'alloy', 'ally', 'almond', 'almonds', 'almost', 'alone', 'along', 'alongside', 'alonso', 'aloud', 'alout', 'alpha', 'alphabet', 'alps', 'already', 'alright', 'alrighty', 'also', 'alt', 'altadena', 'altar', 'alter', 'alteration', 'alterations', 'altered', 'alternate', 'alternations', 'alternative', 'alternatively', 'alternatives', 'although', 'altitude', 'alto', 'altogether', 'aluminium', 'aluminum', 'alumni', 'alway', 'always', 'am', 'amalgamated', 'amanda', 'amateur', 'amazed', 'amazement', 'amazes', 'amazing', 'amazingly', 'ambassador', 'ambassadors', 'ambiance', 'ambition', 'ambitions', 'ambitious', 'ambulance', 'ambulances', 'amd', 'amelia', 'amend', 'amendment', 'amendments', 'amenities', 'america', 'american', 'americano', 'americans', 'amethyst', 'amiable', 'amicable', 'amicably', 'amid', 'ammo', 'among', 'amongst', 'amount', 'amounted', 'amounts', 'ample', 'amplified', 'amplifiers', 'amused', 'amusement', 'amusing', 'amy', 'an', 'ana', 'anaemia', 'anaesthesia', 'anaesthetic', 'anaesthetist', 'anagement', 'analgia', 'analog', 'analysis', 'analyst', 'analysts', 'analytical', 'analyze', 'analyzers', 'analyzing', 'anatomy', 'anc', 'ancestors', 'anchor', 'ancient', 'andante', 'anderson', 'andrea', 'andrew', 'andrews', 'android', 'andy', 'anemic', 'anesthetic', 'ange', 'angel', 'angela', 'angeles', 'angelica', 'angelina', 'angels', 'anger', 'angie', 'angle', 'angles', 'angling', 'angry', 'anilic', 'animal', 'animals', 'animated', 'animation', 'animations', 'anita', 'ankle', 'anklet', 'anlesen', 'anmen', 'ann', 'anna', '

19 annabell', 'anne', 'annie', 'anniversaries', 'anniversary', 'announce', 'announced', 'announcement', 'announcements', 'announcer', 'announces', 'announcing', 'annoy', 'annoyed', 'annoying', 'annoys', 'annual', 'annually', 'annum', 'anny', 'anonymous', 'another', 'anotherleft', 'anshan', 'answer', 'answered', 'answering', 'answers', 'ant', 'ante', 'antelopes', 'anthe', 'anthem', 'anthony', 'anthropology', 'anti', 'antibiotic', 'antibiotics', 'anticipate', 'anticipated', 'antifreeze', 'antihistamine', 'antique', 'antiques', 'antiseptic', 'antivirus', 'ants', 'antsy', 'anxious', 'any', 'anybody', 'anyhow', 'anymore', 'anyone', 'anything', 'anytime', 'anyway', 'anyways', 'anywhere', 'apart', 'apartment', 'apartments', 'ape', 'aperitif', 'apes', 'apologies', 'apologise', 'apologize', 'apologized', 'apologizing', 'apology', 'apostles', 'appalling', 'apparatus', 'apparel', 'apparent', 'apparently', 'appeal', 'appealing', 'appeals', 'appear', 'appearance', 'appearances', 'appeared', 'appearing', 'appears', 'appease', 'appendicitis', 'appendix', 'appetite', 'appetizer', 'appetizers', 'appetizing', 'applause', 'apple', 'apples', 'appliance', 'appliances', 'applicable', 'applicant', 'applicants', 'application', 'applications', 'applied', 'applies', 'apply', 'applying', 'appoint', 'appointed', 'appointing', 'appointment', 'appointments', 'appraisal', 'appreciable', 'appreciate', 'appreciated', 'appreciates', 'appreciating', 'appreciation', 'apprentice', 'apprenticeship', 'approach', 'approachable', 'approached', 'approaches', 'approaching', 'appropriate', 'appropriately', 'approval', 'approvals', 'approve', 'approved', 'approving', 'approximate', 'approximately', 'april', 'apron', 'apt', 'aqua', 'aquamarine', 'aquamedic', 'aquarium', 'aquatics', 'ar', 'arabia', 'arabian', 'arachnophobia', 'arbitration', 'arbitrator', 'arc', 'arcadia', 'arch', 'archaeologist', 'archie', 'architecture', 'archrival', 'arcs', 'arden', 'arduous', 'are', 'area', 'areas', 'aren', 'argentina', 'argentine', 'argue', 'argued', 'arguing', 'argument', 'arguments', 'ari', 'arid', 'aries', 'aright', 'arise', 'arises', 'arising', 'aristocratic', 'arlott', 'arm', 'armada', 'armageddon', 'armchair', 'armed', 'armistice', 'armoire', 'armpit', 'arms', 'armstrong', 'army', 'arn', 'arnold', 'aroma', 'aromas', 'around', 'arouse', 'aroused', 'arpeggios', 'arrange', 'arranged', 'arrangement', 'arrangements', 'arranging', 'array', 'arrest', 'arrested', 'arresting', 'arrival', 'arrivals', 'arrive', 'arrived', 'arrives', 'arriving', 'arrogant', 'arround', 'arrow', 'ars', 'art', 'arteries', 'arthur', 'article', 'articles', 'articulating'

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19 bachelorette', 'bachelors', 'back', 'backache', 'backed', 'backers', 'backfired', 'background', 'backgrounds', 'backlog', 'backpack', 'backroom', 'backs', 'backseat', 'backside', 'backstabber', 'backstreet', 'backstroke', 'backup', 'backups', 'backward', 'backwards', 'backyard', 'bacon', 'bacteria', 'bad', 'badge', 'badly', 'badminton', 'bag', 'baggage', 'bagged', 'baggy', 'bags', 'baguette', 'bai', 'bail', 'bailed', 'bailout', 'bait', 'baits', 'baiyun', 'bake', 'baked', 'bakemeat', 'baker', 'bakeries', 'bakery', 'bakes', 'baking', 'bakshi', 'balance', 'balanced', 'balancing', 'balconies', 'balcony', 'bald', 'bali', 'balista', 'balkans', 'ball', 'ballads', 'ballam', 'ballerinas', 'ballet', 'balling', 'ballistic', 'ballon', 'balloon', 'balloons', 'ballot', 'ballpark', 'ballpoint', 'ballroom', 'ballrooms', 'balls', 'baloney', 'baltimore', 'bambinos', 'bamboo', 'ban', 'banana', 'bananas', 'band', 'bandage', 'bandages', 'bands', 'bandwagon', 'bandwidth', 'bang', 'banged', 'banging', 'bangkok', 'bangs', 'banish', 'bank', 'bankbook', 'banked', 'banker', 'bankers', 'banking', 'bankrupt', 'bankruptcy', 'bankrupts', 'banks', 'banned', 'banners', 'banning', 'banquet', 'bans', 'bao', 'bar', 'barack', 'barathea', 'barb', 'barbara', 'barbaric', 'barbecue', 'barbecues', 'barbecuing', 'barbeque', 'barber', 'barbie', 'barcelona', 'barclays', 'bardot', 'bare', 'barely', 'bargain', 'bargaining', 'bargains', 'baritone', 'bark', 'barker', 'barking', 'barkley', 'barks', 'barksdale', 'barman', 'barney', 'barneys', 'barolo', 'baron', 'barrel', 'barrels', 'barrier', 'barriers', 'barrooms', 'barry', 'bars', 'bart', 'bartender', 'barton', 'base', 'baseball', 'based', 'basement', 'bases', 'bash', 'bashed', 'basic', 'basically', 'basics', 'basil', 'basin', 'basing', 'basis', 'bask', 'basked', 'basket', 'basketball', 'basketful', 'baskets', 'bass', 'bassinet', 'bastard', 'bastards', 'bat', 'batch', 'bates', 'bath', 'bathe', 'bathing', 'bathroom', 'bathrooms', 'baths', 'bathtub', 'batik', 'batter', 'battered', 'batteries', 'battery', 'batting', 'battle', 'battlefield', 'batwoman', 'baubles', 'bawling', 'bay', 'bayer', 'baymler', 'bbs', 'bcd', 'be407', 'be987', 'beach', 'beached', 'beaches', 'beam', 'beams', 'bean', 'beancurd', 'beaning', 'beans', 'bear', 'bearable', 'beard', 'bearer', 'bearings', 'bears', 'beast', 'beastie', 'beat', 'beaten', 'beating', 'beatles', 'beats', 'beau', 'beaut', 'beauties', 'beautiful', 'beautifully', 'beauty', 'beaver', 'bec', 'became', 'beck', 'becker', 'becky', 'become', 'becomes', 'becoming', 'bed', 'bedclothes', 'bedroom', 'bedrooms', 'beds', 'bedsheets', 'bedside', '

19 'bedtime', 'bee', 'beech', 'beecham', 'beef', 'beefing', 'beefsteak', 'beefy', 'beeline', 'beep', 'beeping', 'beer', 'beers', 'bees', 'beet', 'beethoven', 'befilmed', 'before', 'beforecolumbus', 'beforehand', 'beforethe', 'befriended', 'beg', 'began', 'beggar', 'begging', 'begin', 'beginner', 'beginners', 'beginning', 'begins', 'begun', 'behalf', 'behave', 'behaved', 'behaves', 'behaving', 'behavior', 'behaviors', 'behaviour', 'behind', 'beidaihe', 'beige', 'beijing', 'beijingers', 'beings', 'beker', 'belen', 'belgian', 'belgium', 'belief', 'beliefs', 'believe', 'believed', 'believer', 'believes', 'believing', 'belinda', 'belive', 'belknap', 'bell', 'bellboy', 'belle', 'bellevue', 'bellhop', 'bellies', 'belligerent', 'bellini', 'bellman', 'bellow', 'bells', 'belly', 'belong', 'belonged', 'belonging', 'belongings', 'belongs', 'beloved', 'below', 'belt', 'belts', 'ben', 'bench', 'bend', 'bends', 'beneath', 'benefactor', 'beneficial', 'beneficiaries', 'beneficiary', 'benefit', 'benefits', 'benjamin', 'benson', 'bent', 'benter', 'beret', 'bergeron', 'berkeley', 'berlin', 'berman', 'bermuda', 'bernie', 'berth', 'berths', 'bes', 'beside', 'besides', 'bessie', 'best', 'bestseller', 'bestsellers', 'bet', 'beta', 'beth', 'betrayed', 'betsy', 'better', 'bettering', 'betting', 'betty', 'between', 'betweens', 'beverage', 'beverages', 'beyond', 'bf', 'bi', 'biannual', 'biannually', 'bias', 'biased', 'bib', 'bible', 'biceps', 'bickering', 'bicycle', 'bicycles', 'bicycling', 'bid', 'bidder', 'bidders', 'bidding', 'bidng', 'bidpai', 'bids', 'bien', 'big', 'bigger', 'biggest', 'bihai', 'bike', 'biked', 'bikes', 'biking', 'bikini', 'bikinis', 'bilateral', 'bili', 'bilingual', 'bill', 'billboard', 'billboards', 'billed', 'billing', 'billion', 'billions', 'billionth', 'bills', 'billy', 'bin', 'bind', 'binder', 'binders', 'binding', 'binge', 'bingo', 'binoculars', 'bins', 'bio', 'biochemistry', 'biographical', 'biographs', 'biography', 'biohazard', 'biological', 'biology', 'birch', 'bird', 'birdie', 'birdies', 'birds', 'birdseed', 'birmingham', 'birth', 'birthday', 'birthdays', 'birthplace', 'biscuit', 'biscuits', 'bishop', 'bishops', 'bistro', 'bistros', 'bit', 'bitch', 'bitches', 'bite', 'bitesize', 'biting', 'bitstrange', 'bitten', 'bitter', 'bittersweet', 'biz', 'bizarre', 'blabbering', 'blabbermouth', 'blablabla', 'blabs', 'black', 'blackberry', 'blackboard', 'blackened', 'blackjack', 'blackout', 'blackouts', 'blacks', 'bladder', 'blade', 'blades', 'blah', 'blair', 'blake', 'blame', 'blamed', 'blaming', 'blanc', 'blanca', 'bland', 'blank', 'blanket', 'blanks', 'blast', 'blasted', 'blazing'

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19 ', 'brat', 'brave', 'braver', 'bravery', 'bravo', 'brazen
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19 ', 'burners', 'burning', 'burns', 'burnt', 'burping', 'burrito', 'burritos', 'burse', 'burst', 'bursting', 'burton', 'bury', 'burying', 'bus', 'buses', 'bush', 'bushel', 'bushes', 'bushy', 'busier', 'busiest', 'business', 'businesses', 'businessman', 'businessmen', 'bust', 'busted', 'bustle', 'busy', 'busying', 'but', 'butcher', 'butchers', 'butler', 'butoften', 'buts', 'butt', 'butter', 'buttered', 'butterflies', 'butterfly', 'buttermilk', 'buttoning', 'button', 'buttons', 'buy', 'buyer', 'buyers', 'buyi', 'buying', 'buys', 'buzz', 'buzzing', 'buzzword', 'bw159', 'by', 'bye', 'byeb', 'byebye', 'bygones', 'byob', 'byron', 'bystander', 'bystreet', 'byword', 'c2', 'c261', 'c408', 'ca', 'ca169', 'ca193', 'ca216', 'ca621', 'cab', 'cabbage', 'cabin', 'cabinet', 'cabinets', 'cabins', 'cable', 'cabling', 'cabs', 'cacao', 'cacti', 'cad', 'caddie', 'caddies', 'caddy', 'cadre', 'caesar', 'cafe', 'cafes', 'cafeteria', 'caffeinic', 'caffeine', 'cage', 'caged', 'cages', 'cai', 'cain', 'cake', 'cakes', 'cal', 'calculate', 'calculated', 'calculating', 'calculation', 'calculations', 'calculator', 'calculus', 'calendar', 'calendars', 'california', 'californian', 'californians', 'call', 'callaway', 'callboy', 'calle', 'called', 'calledwild', 'caller', 'calligraphy', 'calling', 'callous', 'calls', 'calm', 'calmed', 'calmer', 'calming', 'calories', 'calsberg', 'calves', 'calvin', 'cambridge', 'camcorder', 'camcorders', 'camden', 'came', 'camel', 'camera', 'cameras', 'cameron', 'camp', 'campaign', 'campaigns', 'campbell', 'campers', 'campground', 'camphor', 'camping', 'camps', 'campus', 'can', 'canada', 'canadian', 'canal', 'canals', 'canary', 'canberra', 'cancel', 'canceled', 'canceling', 'cancellation', 'cancellations', 'cancelled', 'canceling', 'cancels', 'cancer', 'candida', 'candidate', 'candidates', 'candidly', 'candied', 'candies', 'candle', 'candlelight', 'candles', 'candy', 'cane', 'canes', 'cann', 'canned', 'cannedlichee', 'cannot', 'canoe', 'canoeing', 'canon', 'cans', 'cant', 'cantaloupe', 'canteen', 'canterbury', 'canton', 'cantonese', 'canvas', 'canvass', 'canyon', 'canyons', 'cap', 'capabilities', 'capability', 'capable', 'capacities', 'capacity', 'cape', 'caper', 'capers', 'capita', 'capital', 'capitalists', 'capitals', 'capitol', 'cappuccino', 'capricorn', 'capris', 'caps', 'capsule', 'capsules', 'captain', 'captivated', 'captivating', 'capture', 'captured', 'captures', 'car', 'carat', 'carats', 'carbohydrates', 'carbon', 'carbonated', 'carburetor', 'card', 'cardboard', 'cardboards', 'cardiac', 'cardigan', 'cardin', 'cardiopulmonary', 'cards', 'care', 'cared'

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19 ', 'career', 'careers', 'careful', 'carefully', 'careless',
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19 'grandmother', 'grandmothers', 'grandpa', 'grandparents', 'grandson', 'granger', 'grangerfield', 'grangers', 'granite', 'grannie', 'granny', 'granola', 'grant', 'granted', 'granting', 'grants', 'grape', 'grapefruit', 'grapefruits', 'grapes', 'grapevine', 'graph', 'graphic', 'graphics', 'graphs', 'grappa', 'grasp', 'grasping', 'grass', 'grasslands', 'grassy', 'grateful', 'gratis', 'gratitude', 'gratuities', 'grave', 'gravel', 'graves', 'graveyard', 'gravity', 'gravy', 'gray', 'graze', 'grazing', 'gre', 'grease', 'greasy', 'great', 'greater', 'greatest', 'greatly', 'greats', 'greece', 'greed', 'greedy', 'greek', 'green', 'greenbean', 'greener', 'greenery', 'greenfield', 'greengrocer', 'greenhouse', 'greenish', 'greenpeace', 'greens', 'greenwich', 'greenwood', 'greet', 'greeting', 'greetings', 'greg', 'gregory', 'grenadine', 'greta', 'gretchen', 'grew', 'grey', 'greyhound', 'grief', 'grill', 'grilled', 'grilling', 'grim', 'grin', 'grinch', 'grind', 'grinder', 'grinders', 'grinding', 'grinds', 'grindstone', 'grinning', 'grip', 'gripping', 'grips', 'grm', 'groaned', 'groans', 'grocer', 'groceries', 'grocery', 'groh', 'groom', 'groomed', 'grooming', 'groomsman', 'groomsmen', 'groovy', 'groping', 'gross', 'grouch', 'grouchy', 'ground', 'grounded', 'grounds', 'groundwater', 'group', 'groups', 'grove', 'groves', 'grow', 'growing', 'growling', 'grown', 'grownup', 'grownups', 'grows', 'growth', 'grub', 'grudge', 'grumbling', 'grumose', 'grunt', 'gs', 'gt670s', 'gte', 'guacamole', 'guangdong', 'guangzhou', 'guar', 'guarantee', 'guaranteed', 'guarantees', 'guarantor', 'guard', 'guardian', 'guardrail', 'guards', 'guatemala', 'gucci', 'guess', 'guessed', 'guessing', 'guesswork', 'guest', 'guests', 'guggenheim', 'gui', 'guidance', 'guide', 'guidebook', 'guided', 'guidelines', 'guides', 'guiding', 'guild', 'guiliners', 'guiling', 'guilty', 'guinea', 'guitar', 'guitarist', 'guizhou', 'gullibility', 'gullible', 'gullies', 'gulping', 'gum', 'gump', 'gums', 'gun', 'gunpowder', 'guns', 'guser', 'gush', 'gushed', 'gushing', 'gustave', 'gusts', 'gut', 'guts', 'gutters', 'guy', 'guyon', 'guys', 'guythat', 'guzzlers', 'gwent', 'gym', 'gymnasium', 'gymnastic', 'gymnastics', 'gynecology', 'ha', 'habeas', 'habit', 'habitable', 'habitat', 'habitats', 'habits', 'habitual', 'hack', 'hacker', 'hackers', 'hackett', 'hacking', 'hackneyed', 'hacks', 'hadn', 'haggis', 'haggle', 'haggling', 'hah', 'haha', 'hai', 'haiguan', 'hail', 'hailstorm', 'hainan', 'hair', 'hairbrushes', 'haircut', 'hairdo', 'hairdresser', 'hairdressers', 'haired', 'hairpin', 'hairs', 'hairspray', 'hairstyle', 'hairstyles', '

19 haitian', 'haj', 'hal', 'haleness', 'half', 'halfway', 'hall', 'halle', 'halloween', 'halls', 'hallucinating', 'hallway', 'halmiton', 'halogen', 'halogens', 'halt', 'ham', 'hamburg', 'hamburger', 'burgers', 'hamilton', 'hamlet', 'hamlin', 'hammer', 'hammerhead', 'hampshire', 'hamster', 'hamsters', 'hamstrings', 'han', 'hancock', 'hand', 'handbag', 'handcrafts', 'handed', 'handedly', 'handful', 'handicap', 'handicapped', 'handicraft', 'handicrafts', 'handiness', 'handing', 'handkerchief', 'handkerchiefs', 'handle', 'handlebars', 'handled', 'handles', 'handling', 'handmade', 'handout', 'handouts', 'hands', 'handset', 'handsets', 'handshake', 'handshakes', 'handsome', 'handwashed', 'handworker', 'handworks', 'handwriting', 'handy', 'handyman', 'hang', 'hanged', 'hanger', 'hangers', 'hangerstory', 'hanging', 'hangover', 'hangzhou', 'hank', 'hanks', 'hannibal', 'hans', 'hanson', 'hanukah', 'hao', 'happen', 'happened', 'happening', 'happens', 'happier', 'happiest', 'happily', 'happiness', 'happy', 'harass', 'harassed', 'harassing', 'harassment', 'harbin', 'harbors', 'hard', 'hardcover', 'harden', 'harder', 'hardest', 'hardly', 'hardships', 'hardware', 'hardworking', 'harm', 'harmful', 'harming', 'harmless', 'harmonious', 'harmoniously', 'harmonize', 'harmony', 'harold', 'harper', 'harps', 'harris', 'harrison', 'harrow', 'harry', 'harsh', 'hart', 'hartford', 'harvard', 'harvest', 'harvested', 'harvests', 'harvey', 'hash', 'hasn', 'hassle', 'haste', 'hasten', 'hasty', 'hat', 'hatch', 'hatchet', 'hate', 'hated', 'hates', 'hathaway', 'hats', 'haul', 'hauled', 'haunt', 'haunted', 'have', 'haven', 'haver', 'havn', 'havoc', 'hawaii', 'hawaiian', 'hawkins', 'hawthorne', 'hayes', 'hazardous', 'hazards', 'hazel', 'hazy', 'hbo', 'he', 'head', 'headache', 'headaches', 'headed', 'header', 'headhunter', 'heading', 'headings', 'headless', 'headlights', 'headline', 'headlines', 'headmaster', 'headoffice', 'headphones', 'headquarter', 'headquarters', 'heads', 'headspace', 'heal', 'healed', 'healers', 'healing', 'health', 'healthcare', 'healthful', 'healthier', 'healthiest', 'healthily', 'healthy', 'heaps', 'hear', 'heard', 'hearing', 'hears', 'heart', 'heartbeat', 'hearted', 'heartfelt', 'hearts', 'hearty', 'heat', 'heated', 'heater', 'heaters', 'heath', 'heather', 'heathrow', 'heating', 'heatstroke', 'heaven', 'heavenly', 'heavens', 'heavier', 'heavily', 'heavy', 'hebes', 'heck', 'hectares', 'hectic', 'hedge', 'heel', 'heeled', 'heels', 'heer', 'hefty', 'hehe', 'height', 'heighten', 'heights', 'heineken', 'held', 'helen', 'helium', 'hell', 'hellen', 'hello', 'hells', 'helmet', 'helmets'

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19 ', 'help', 'helped', 'helper', 'helpful', 'helping', 'helpless', 'helps', 'hem', 'hemingway', 'hemisphere', 'hemline', 'hen', 'hence', 'henderson', 'henry', 'henrylee', 'hepatitis', 'hepburn', 'herald', 'herb', 'herbal', 'herbs', 'here', 'heritage', 'herman', 'hero', 'heroes', 'heroin', 'heroine', 'herring', 'herry', 'hesitant', 'hesitate', 'hesitating', 'hesitation', 'hetter', 'hey', 'heywood', 'hi', 'hickory', 'hid', 'hidden', 'hide', 'hideous', 'hides', 'hiding', 'hierarchy', 'hifi', 'higgins', 'high', 'highchair', 'higher', 'highest', 'highheel', 'highjack', 'highland', 'highlight', 'highlighted', 'highlighter', 'highlighters', 'highlights', 'highly', 'highpowered', 'highs', 'highschool', 'hight', 'highway', 'highways', 'hijack', 'hijacked', 'hijackers', 'hike', 'hiked', 'hiker', 'hikers', 'hikes', 'hiking', 'hilarious', 'hilary', 'hilda', 'hildrod', 'hill', 'hills', 'hillside', 'hilly', 'hilt', 'hilton', 'himalayan', 'himalayas', 'hinder', 'hindu', 'hindu', 'hint', 'hints', 'hip', 'hire', 'hired', 'hires', 'hiring', 'hissing', 'hissy', 'historian', 'historic', 'historical', 'historically', 'histories', 'history', 'hit', 'hitch', 'hitched', 'hitchhiker', 'hitchhiking', 'hits', 'hitting', 'hive', 'hk', 'hm', 'hmm', 'hmmm', 'hmmmm', 'hmo', 'ho', 'hoar', 'hoard', 'hoarsely', 'hob', 'hobbies', 'hobby', 'hocked', 'hockey', 'hocus', 'hoe', 'hog', 'hogging', 'hokkaido', 'hold', 'holdall', 'holder', 'holders', 'holding', 'holds', 'holdups', 'hole', 'holes', 'holiday', 'holidays', 'holland', 'hollering', 'hollow', 'hollowed', 'holly', 'hollywood', 'holmes', 'holt', 'holton', 'holy', 'home', 'homecoming', 'homeland', 'homeless', 'homelesspeople', 'homemade', 'homepage', 'homeroom', 'homes', 'homesick', 'homestay', 'homesupplies', 'hometown', 'homework', 'homophobic', 'homosex', 'hon', 'honda', 'honduras', 'hone', 'honest', 'honestly', 'honesty', 'honey', 'honeymoon', 'hong', 'hongbo', 'honging', 'hongkong', 'hongtao', 'honking', 'honolulu', 'honor', 'honorable', 'honored', 'honors', 'honour', 'honoured', 'hoo', 'hood', 'hook', 'hooked', 'hooks', 'hookup', 'hooky', 'hoopla', 'hoops', 'hooray', 'hoover', 'hop', 'hope', 'hoped', 'hopeful', 'hopefully', 'hopeless', 'hopes', 'hoping', 'hopkins', 'hopping', 'hops', 'hopscotch', 'hordes', 'horizon', 'horizontally', 'hormones', 'horn', 'horntown', 'horoscope', 'horoscopes', 'horowitz', 'horrendous', 'horrible', 'horribly', 'horror', 'horse', 'horseback', 'horses', 'horsey', 'horst', 'horti', 'horton', 'hose', 'hositable', 'hospital', 'hospitality', 'hospitalized', 'hospitals', 'host', 'hostage', 'hostel', 'hostess', '

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19 'hostesses', 'hostility', 'hosting', 'hosue', 'hot', 'hotcakes', 'hotdog', 'hotei', 'hotel', 'hotels', 'hotpot', 'hots', 'hotshot', 'hotspot', 'hotspots', 'hotter', 'hottest', 'hottie', 'hound', 'hour', 'hourly', 'hours', 'house', 'housecleaning', 'houseguest', 'household', 'households', 'housekeeper', 'housekeepers', 'housekeeping', 'housemaids', 'houses', 'housewife', 'housework', 'housing', 'houston', 'hovering', 'how', 'howard', 'howdy', 'however', 'howl', 'howso', 'hp', 'hq', 'hr', 'hu', 'hua', 'huan', 'huang', 'huangguoshu', 'huanghe', 'huangshan', 'huanhuan', 'huanzhu', 'huawei', 'hubble', 'hubert', 'hudson', 'hug', 'huge', 'hugh', 'hughes', 'huh', 'hui', 'hum', 'human', 'humane', 'humanistic', 'humanity', 'humankind', 'humanly', 'humans', 'humble', 'humerus', 'humid', 'humidity', 'humiliated', 'humiliating', 'humility', 'hummed', 'hummum', 'humor', 'humoredly', 'humorous', 'humour', 'hump', 'umph', 'humungous', 'hunan', 'hunch', 'hunched', 'hundred', 'hundreds', 'hundredth', 'hung', 'hunger', 'hungry', 'hunt', 'hunter', 'hunters', 'hunting', 'huntley', 'hurdle', 'hurdles', 'hurricane', 'hurriedly', 'hurry', 'hurrying', 'hurt', 'hurtful', 'hurting', 'hurts', 'husband', 'husbands', 'hush', 'hustle', 'huston', 'hut', 'hy', 'hyde', 'hydrabad', 'hydrated', 'hydraulic', 'hydro', 'hydrochlorothiazide', 'hydroelectric', 'hygiene', 'hygienic', 'hygienist', 'hyoid', 'hype', 'hyper', 'hyperlink', 'hypertension', 'hysterically', 'ia', 'iam', 'ib', 'iba', 'ibm', 'ic', 'iccc', 'ice', 'icecream', 'iced', 'ices', 'ichang', 'icing', 'icky', 'icon', 'icy', 'id', 'ide', 'idea', 'ideal', 'ideally', 'ideals', 'ideas', 'iden', 'identical', 'identification', 'identifications', 'identifies', 'identify', 'identity', 'idiom', 'idiomatic', 'idioms', 'idiot', 'idle', 'idling', 'idol', 'idolized', 'idols', 'ie', 'ieee', 'ifs', 'iglesias', 'ignite', 'ignition', 'ignorance', 'ignorant', 'ignore', 'ignored', 'ignoring', 'igp', 'iguana', 'ii', 'ikea', 'ikebana', 'il', 'ill', 'illegal', 'illegally', 'illiterate', 'illness', 'illnesses', 'illustrate', 'illustration', 'illustrator', 'im', 'image', 'images', 'imaginary', 'imagination', 'imagine', 'imagined', 'imagines', 'imagining', 'imbalance', 'imitate', 'imitates', 'imitation', 'immature', 'immaturity', 'immediate', 'immediately', 'immigrant', 'immigrants', 'immigrate', 'immigrated', 'immigrating', 'immigration', 'immortality', 'immortals', 'immune', 'immunization', 'impact', 'impart', 'impatience', 'impatient', 'imperative', 'imperfection', 'imperial', 'impetuosity', 'impf', 'implants', 'implement', 'implementation', 'implemented', '

19 implies', 'imply', 'impolite', 'imponent', 'import', 'importance', 'important', 'importantly', 'imported', 'importer', 'importers', 'importing', 'imports', 'impose', 'imposed', 'imposes', 'impossible', 'impound', 'impounded', 'impress', 'impressed', 'impression', 'impressions', 'impressive', 'imprint', 'imprisoned', 'imprisonment', 'improper', 'improve', 'improved', 'improvement', 'improvements', 'improves', 'improving', 'impulse', 'impulsive', 'inaccurate', 'inadvertently', 'inappropriate', 'inauspicious', 'inbreeding', 'inc', 'incarnate', 'incense', 'incentive', 'incentives', 'incessant', 'inch', 'inches', 'incident', 'incidentals', 'incineration', 'inclination', 'incline', 'include', 'includeair', 'included', 'includes', 'including', 'inclusive', 'incoherence', 'income', 'incoming', 'incompetence', 'incompetent', 'incomplete', 'inconsiderate', 'inconvenience', 'inconveniences', 'inconvenient', 'incorporate', 'incorporated', 'incorporating', 'incorrect', 'increase', 'increased', 'increases', 'increasing', 'increasingly', 'incredible', 'incredibly', 'incurred', 'indeed', 'indefinitely', 'indelible', 'indemnify', 'indented', 'independence', 'independent', 'independently', 'indeterminate', 'index', 'india', 'indian', 'indians', 'indicate', 'indicated', 'indicates', 'indicating', 'indication', 'indicative', 'indicator', 'indifference', 'indifferent', 'indigenes', 'indigenous', 'indirect', 'indiscretion', 'indispensable', 'indispensible', 'indistinct', 'individual', 'individualistic', 'individuality', 'individually', 'individuals', 'indonesia', 'indonesians', 'indoor', 'indoors', 'inducted', 'induction', 'indulge', 'indulgence', 'indulgent', 'industrial', 'industrialized', 'industries', 'industrious', 'industry', 'indy', 'inevitable', 'inevitably', 'inexpensive', 'infants', 'infatuated', 'infatuation', 'infect', 'infected', 'infecting', 'infection', 'infections', 'infer', 'inferior', 'infield', 'infinite', 'inflamed', 'inflatables', 'inflate', 'inflated', 'inflation', 'inflection', 'inflexible', 'inflict', 'influence', 'influenced', 'influences', 'influential', 'influenza', 'info', 'infomania', 'infomercials', 'inform', 'informal', 'information', 'informative', 'informed', 'informing', 'informs', 'infrastructure', 'infuriating', 'ingredient', 'ingredients', 'inhabitable', 'inhale', 'inhaler', 'inherit', 'inheritance', 'inherited', 'inhibitions', 'inhibitor', 'initial', 'initially', 'initials', 'initiated', 'initiative', 'initiatives', 'inition', 'injection', 'injure', 'injured', 'injuries', 'injuring', 'injury', '

19 injustice', 'ink', 'inland', 'inn', 'inner', 'inning', 'innocence', 'innocent', 'innovation', 'innovations', 'innovative', 'inns', 'input', 'inquire', 'inquired', 'inquires', 'inquiries', 'inquiring', 'inquiry', 'inquisitive', 'ins', 'insane', 'inscriptions', 'inseam', 'insect', 'insecticide', 'insects', 'inseems', 'insensitive', 'insert', 'inserts', 'inside', 'insight', 'insights', 'insignificant', 'insincere', 'insinuated', 'insist', 'insisted', 'insists', 'insite', 'insoles', 'insomnia', 'inspect', 'inspected', 'inspecting', 'inspection', 'inspectionbureau', 'inspections', 'inspector', 'inspects', 'inspiration', 'inspirations', 'inspire', 'inspired', 'inspiring', 'instability', 'install', 'installation', 'installed', 'installment', 'installments', 'installs', 'instalment', 'instalments', 'instance', 'instant', 'instantly', 'instead', 'instep', 'instincts', 'institute', 'instituted', 'institutes', 'institution', 'institutions', 'instructed', 'instruction', 'instructions', 'instructive', 'instructor', 'instructors', 'instrument', 'instrumental', 'instruments', 'insufficient', 'insulators', 'insult', 'insulted', 'insurance', 'insurancecompany', 'insurances', 'insure', 'insured', 'insurmountable', 'intact', 'intake', 'integral', 'integrate', 'integrated', 'integration', 'integrity', 'intellect', 'intellectual', 'intelligence', 'intelligent', 'intend', 'intended', 'intense', 'intensity', 'intensive', 'intent', 'intention', 'intentional', 'intentionally', 'intentions', 'inter', 'interact', 'interacting', 'interaction', 'interactive', 'interacts', 'interchange', 'intercontinental', 'intercultural', 'interdepartmental', 'interest', 'interested', 'interesting', 'interestingly', 'interests', 'interface', 'interfere', 'interfering', 'interior', 'interiors', 'interlocking', 'intermediary', 'intermediate', 'internet', 'intermission', 'intern', 'internal', 'international', 'interned', 'internet', 'internist', 'internship', 'interpersonal', 'interplanetary', 'interpret', 'interpretation', 'interpreter', 'interpreting', 'interprets', 'interrupt', 'interrupted', 'interrupting', 'interruptions', 'intersection', 'intertwined', 'interval', 'interview', 'interviewed', 'interviewee', 'interviewees', 'interviewer', 'interviewers', 'interviewing', 'interviews', 'intestines', 'intimacy', 'intimate', 'intimidated', 'intolerant', 'intra', 'introduce', 'introduced', 'introducing', 'introduction', 'introductions', 'introductory', 'introvert', 'introverted', 'intrude', 'invade', 'invaded', 'invading', 'invalid'

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19 ', 'invaluable', 'invasion', 'invent', 'invented', 'invention', 'inventions', 'inventive', 'inventors', 'inventory', 'invesigator', 'invest', 'invested', 'investigate', 'investigated', 'investigating', 'investigation', 'investigations', 'investigative', 'investigators', 'investing', 'investment', 'investments', 'investor', 'investors', 'invests', 'invigorate', 'invitation', 'invitations', 'invite', 'invited', 'invites', 'inviting', 'invoice', 'invoices', 'invoking', 'involve', 'involved', 'involves', 'involving', 'io', 'iodine', 'iota', 'ioves', 'ipad', 'iphone', 'ipo', 'ipod', 'iq', 'ir', 'iran', 'iranians', 'iraq', 'ireland', 'irene', 'iris', 'irish', 'irishman', 'iron', 'ironed', 'ironic', 'ironing', 'irrefutable', 'irresponsibility', 'irresponsible', 'irrevocable', 'irritable', 'irritated', 'irritates', 'irritating', 'irritation', 'is', 'isa', 'isaac', 'isabel', 'isabella', 'isabelle', 'isaiah', 'isawell', 'isee', 'isis', 'islam', 'island', 'islands', 'islet', 'isn', 'isnt', 'isolated', 'isolating', 'issue', 'issued', 'issues', 'ist', 'it', 'italia', 'italian', 'italians', 'italy', 'itch', 'itches', 'itching', 'itchy', 'item', 'itemized', 'items', 'itemssold', 'itineraries', 'itinerary', 'itis', 'itunes', 'ivan', 'ive', 'ivory', 'ivp', 'ivs', 'ivy', 'jack', 'jacked', 'jacket', 'jackets', 'jackie', 'jackpot', 'jackson', 'jacky', 'jacob', 'jacobs', 'jacuzzi', 'jade', 'jades', 'jagged', 'jaguar', 'jail', 'jake', 'jalapenos', 'jam', 'jamaican', 'jame', 'james', 'jameson', 'jamie', 'jammed', 'jams', 'jan', 'jane', 'janes', 'janet', 'janetjackson', 'janey', 'janice', 'janitor', 'janna', 'january', 'janus', 'japan', 'japanese', 'jar', 'jared', 'jargon', 'jarring', 'jars', 'jas', 'jasmine', 'jason', 'java', 'javelin', 'jaw', 'jawbreakers', 'jay', 'jazz', 'jazzed', 'jc', 'jd185649000023', 'jealous', 'jealousy', 'jean', 'jeanine', 'jeans', 'jeansand', 'jeep', 'jeer', 'jeez', 'jeff', 'jeffery', 'jell', 'jellied', 'jelly', 'jellyfish', 'jemmy', 'jen', 'jenkins', 'jenn', 'jenner', 'jennie', 'jennifer', 'jennings', 'jennisse', 'jenny', 'jenson', 'jeny', 'jeopardize', 'jeremy', 'jerk', 'jerks', 'jerrod', 'jerry', 'jersey', 'jes', 'jess', 'jesse', 'jessica', 'jessie', 'jesus', 'jet', 'jetlag', 'jets', 'jewel', 'jewellery', 'jewelry', 'jewels', 'jewish', 'jfk', 'jiajieshi', 'jianshan', 'jianshe', 'jiaozi', 'jiffy', 'jill', 'jim', 'jimmy', 'jin', 'jina', 'jing', 'jingdezhen', 'jingle', 'jingles', 'jingshan', 'jinx', 'jinyuan', 'jitters', 'jiuzhaigou', 'jive', 'jizhou', 'jo', 'joan', 'joann', 'joanna', 'joanne', 'job', 'jobs', 'jodi', 'joe', 'joey', '

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19 jog', 'jogged', 'joggers', 'jogging', 'jogs', 'john', 'johnharvard', 'johnny', 'johns', 'johnson', 'join', 'joined', 'joining', 'joins', 'joint', 'joints', 'joist', 'joke', 'joked', 'jokes', 'joking', 'jokingly', 'jolie', 'jolly', 'jolting', 'jon', 'jone', 'jones', 'joneses', 'jong', 'jordan', 'joseph', 'josephine', 'josh', 'joshua', 'journal', 'journalism', 'journalist', 'journalistic', 'journalists', 'journals', 'journey', 'joy', 'joyful', 'joys', 'jr', 'jt', 'ju', 'juan', 'jucky', 'jude', 'judge', 'judgement', 'judges', 'judging', 'judgment', 'judgments', 'judie', 'judo', 'judy', 'juggle', 'jugular', 'juice', 'juiced', 'juicer', 'juices', 'juicy', 'jul', 'julia', 'julian', 'julianne', 'julie', 'juliet', 'july', 'jumble', 'jumbo', 'jump', 'jumped', 'jumpers', 'jumping', 'jumps', 'jun', 'junction', 'june', 'jung', 'jungle', 'junior', 'junk', 'junker', 'junkie', 'jupiter', 'jurassic', 'jurgen', 'justice', 'justify', 'justin', 'justturn', 'juventas', 'jv', 'kahn', 'kai', 'kaitlyn', 'kalina', 'kangaroo', 'kangaroos', 'kansas', 'kaohsiung', 'kara', 'karachi', 'karaoke', 'karate', 'karen', 'karks', 'karl', 'karlis', 'karren', 'kat', 'kata', 'kate', 'katherine', 'kathleen', 'kathmandu', 'kathy', 'katie', 'kats', 'kaufman', 'kazakhstan', 'kb256', 'kbps', 'kc', 'kebab', 'kebabs', 'keen', 'keep', 'keeper', 'keepers', 'keeping', 'keeps', 'keepsake', 'keepsakes', 'keith', 'kell', 'keller', 'kelly', 'ken', 'kenji', 'kenmore', 'kennedy', 'kenny', 'kensington', 'kent', 'kentucky', 'kenvir', 'kept', 'keri', 'kerry', 'ketchup', 'kettle', 'kevin', 'key', 'keyboard', 'keyless', 'keypad', 'keys', 'kf98', 'kfc', 'kg', 'khaki', 'khakis', 'kiang', 'kiangs', 'kick', 'kickboxing', 'kicked', 'kicking', 'kickoff', 'kicks', 'kid', 'kidding', 'kidnapped', 'kidnapper', 'kidney', 'kidneys', 'kids', 'kikes', 'kikicama', 'kikois', 'kill', 'killed', 'killer', 'killing', 'killington', 'kilo', 'kilogram', 'kilograms', 'kilometer', 'kilometers', 'kilometres', 'kilos', 'kim', 'kimble', 'kimchi', 'kimmie', 'kind', 'kinda', 'kindergarten', 'kindest', 'kindly', 'kindness', 'kinds', 'king', 'kingdom', 'kings', 'kino', 'kinsey', 'kiss', 'kisses', 'kissing', 'kisssssssss', 'kit', 'kitchen', 'kitchens', 'kitchenware', 'kite', 'kites', 'kith', 'kitten', 'kitty', 'kiwi', 'kiwis', 'kl', 'kl17', 'kl638', 'kleenex', 'klein', 'km', 'km509', 'kn509', 'knee', 'knees', 'knew', 'knife', 'knifed', 'knight', 'knit', 'knitwear', 'knives', 'knob', 'knock', 'knocked', 'knocking', 'knocks', 'knot', 'knots', 'know', 'knowhow', 'knowing', 'knowledge', 'knowledgeable', 'known', 'knows', 'knt', 'koala', 'koalas', 'kobe', 'kobi', 'kodak', 'kollwitz', '

19 kong', 'koo', 'kook', 'korea', 'korean', 'koreans', 'kow', 'kowalski', 'kown', 'kramer', 'kreng', 'kristin', 'kristy', 'ktctwy', 'kts', 'kula', 'kun', 'kung', 'kunming', 'kurt', 'kwon', 'kyoto', 'l0', 'l8v', 'l940', 'la', 'lab', 'label', 'labeled', 'labeling', 'labelled', 'labels', 'labor', 'laboratory', 'laboring', 'labour', 'labrador', 'labs', 'labyrinth', 'lacarne', 'lace', 'laceration', 'lack', 'lacked', 'lacking', 'lacks', 'lacy', 'ladder', 'ladies', 'lading', 'lady', 'ladybugs', 'lag', 'lager', 'lags', 'laid', 'laing', 'lait', 'lake', 'lakers', 'lakes', 'lakeshore', 'lakeside', 'lama', 'lamb', 'lambeth', 'lame', 'lamely', 'lamley', 'lamp', 'lamps', 'lan', 'lancaster', 'lance', 'land', 'landed', 'lander', 'landfang', 'landfill', 'landing', 'landings', 'landlady', 'landline', 'landlord', 'landlords', 'landmark', 'landmarks', 'lands', 'landscape', 'landscapes', 'landscaping', 'landslides', 'landy', 'lane', 'lanes', 'language', 'languages', 'languid', 'lanky', 'lantern', 'lanterns', 'lao', 'lap', 'lapels', 'lapis', 'laps', 'lapses', 'laptop', 'laptops', 'large', 'largely', 'larger', 'largest', 'lark', 'larks', 'larry', 'larson', 'las', 'lasagna', 'lasagne', 'laser', 'lash', 'lashes', 'lasi', 'lassie', 'last', 'lasted', 'lasting', 'lastly', 'lasts', 'lat', 'late', 'lately', 'later', 'latest', 'latin', 'latte', 'latter', 'lattes', 'lau', 'laugh', 'laughed', 'laughing', 'laughs', 'laughter', 'launch', 'launched', 'launcher', 'launches', 'laundering', 'laundromat', 'laundry', 'laundryman', 'laura', 'lauren', 'laurence', 'laurie', 'lavalle', 'lavatory', 'lavender', 'lavigen', 'lavish', 'law', 'lawn', 'laws', 'lawson', 'lawsons', 'lawyer', 'lawyers', 'lay', 'layer', 'layers', 'laying', 'laymen', 'layoff', 'layoffs', 'layout', 'layover', 'layovers', 'lazier', 'lazing', 'lazy', 'lazybones', 'lb', 'lc', 'lcd', 'le', 'lead', 'leader', 'leaders', 'leadership', 'leading', 'leads', 'leaf', 'leaflet', 'leaflets', 'league', 'leah', 'leak', 'leakage', 'leaked', 'leaking', 'leaks', 'leaky', 'leamer', 'lean', 'leaning', 'leap', 'leaps', 'learn', 'learned', 'learner', 'learners', 'learning', 'learns', 'learnt', 'lease', 'leases', 'leasing', 'least', 'leather', 'leathers', 'leave', 'leaves', 'leaving', 'lecture', 'lectured', 'lecturer', 'lectures', 'lecturing', 'led', 'lee', 'leeds', 'left', 'leftover', 'leftovers', 'leg', 'legal', 'legalize', 'legalizing', 'legally', 'legend', 'legendary', 'legends', 'legislation', 'legislative', 'legitimate', 'legs', 'lei', 'leisure', 'leisured', 'leitao', 'lemans', 'lemon', 'lemonade', 'lemongrass', 'lemons', 'lend', 'lending', 'length', '

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19 'lengthen', 'lengths', 'lengthy', 'lenient', 'lens', 'lenses', 'lent', 'leo', 'leon', 'leonard', 'leopard', 'leopards', 'les', 'lesbian', 'lesbians', 'lesley', 'leslie', 'less', 'lessen', 'lessened', 'lessening', 'lesson', 'lessons', 'lester', 'let', 'letdown', 'lets', 'letter', 'letterhead', 'letters', 'letting', 'lettuce', 'level', 'levelheaded', 'levels', 'lever', 'levin', 'levis', 'levy', 'lewis', 'lexington', 'lf', 'lhasa', 'li', 'liabilities', 'liability', 'liable', 'liaison', 'liang', 'liangs', 'liao', 'liar', 'liars', 'liberal', 'liberation', 'liberty', 'libidos', 'librarian', 'library', 'licence', 'license', 'licensing', 'lichee', 'lichen', 'lichi', 'licking', 'lid', 'lido', 'lidos', 'lids', 'lie', 'lied', 'lies', 'lieu', 'life', 'lifebuoy', 'lifeguard', 'lifelike', 'lifelong', 'lifesaver', 'lifespan', 'lifestyle', 'lifestyles', 'lifetime', 'lift', 'lifted', 'lifting', 'lifts', 'light', 'lighted', 'lighten', 'lightening', 'lighter', 'lighters', 'lightheaded', 'lighting', 'lightly', 'lightrail', 'lights', 'lightweight', 'like', 'liked', 'likely', 'likes', 'likethat', 'likewise', 'liking', 'lili', 'lilian', 'liliana', 'lilies', 'lillian', 'lilling', 'lilly', 'lily', 'lim', 'lima', 'limbo', 'limbs', 'lime', 'limit', 'limitation', 'limitations', 'limited', 'limiting', 'limits', 'limo', 'limousine', 'limousines', 'limp', 'limping', 'lin', 'lina', 'linaria', 'lincoln', 'linda', 'lindsay', 'line', 'linear', 'lined', 'linen', 'linens', 'liner', 'liners', 'lines', 'ling', 'lingerie', 'lingering', 'lingual', 'linguistics', 'lingy', 'lining', 'link', 'linked', 'links', 'lion', 'lions', 'lip', 'lipgloss', 'liposuction', 'lips', 'lipstick', 'lipsticks', 'lipton', 'liq', 'liqueur', 'liquid', 'liquidity', 'liquids', 'liquor', 'liquors', 'lisa', 'lisbon', 'lisinopril', 'list', 'listed', 'listen', 'listened', 'listener', 'listening', 'listens', 'listing', 'listings', 'listless', 'lists', 'lit', 'lite', 'liter', 'literally', 'literary', 'literation', 'literature', 'literatures', 'lithium', 'litt', 'litter', 'littering', 'little', 'liu', 'liv', 'live', 'lived', 'livelier', 'lively', 'liver', 'liverwurst', 'lives', 'livesay', 'living', 'livingroom', 'liz', 'lizard', 'lizards', 'lizzy', 'lj88', 'll', 'llbe', 'ln', 'lo', 'load', 'loaded', 'loading', 'loads', 'loaf', 'loan', 'loange', 'loans', 'loaves', 'loaving', 'lobbied', 'lobby', 'loborial', 'lobster', 'lobsters', 'local', 'locality', 'locally', 'locals', 'locate', 'located', 'locates', 'locating', 'location', 'locations', 'lock', 'locked', 'locker', 'locket', 'locking', 'locks', 'loco', 'locus', 'lodge', 'lodges', 'lodging', 'log', '

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19 logan', 'logged', 'logic', 'logical', 'logistics', 'logo',
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  'lu', 'lubricate', 'lucas', 'lucie', 'luck', 'luckier', ,
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  'lucy', 'ludlow', 'lug', 'luge', 'luggage', 'luggages', ,
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  'lumpur', 'lunar', 'lunch', 'luncheon', 'lunches', ,
  'lunchroom', 'lunchtime', 'lung', 'lungs', 'luo', 'luoyang',
  ', 'lures', 'lush', 'lushun', 'luster', 'lustre', ,
  'lustrous', 'lute', 'luther', 'lux', 'luxurious', 'luxury',
  ', 'lvan', 'lydia', 'lying', 'lyrics', 'm11', 'm25', 'm4',
  ', 'm40', 'ma', 'maazel', 'mabel', 'mac', 'macadamia', ,
  'macao', 'macaroni', 'macau', 'macchiato', 'macdonald', ,
  'mach', 'machine', 'machinery', 'machines', 'macho', ,
  'macintosh', 'macintoshes', 'macmillan', 'macready', ,
  'macroeconomics', 'macrohard', 'macros', 'macs', 'macy', ,
  'mad', 'madam', 'madame', 'maddie', 'maddox', 'made', ,
  'madison', 'madly', 'madmen', 'madness', 'madras', 'madrid',
  ', 'madsen', 'mafia', 'mag', 'magadize', 'magazine', ,
  'magazines', 'maggie', 'maggy', 'magic', 'magical', ,
  'magnificent', 'magnifying', 'magnitude', 'magnolia', 'mah',
  ', 'mahal', 'mahjong', 'mahoney', 'maid', 'maids', 'mail',
  ', 'mailbox', 'mailboxes', 'mailed', 'mailers', 'mailing',
  ', 'mailings', 'mailman', 'mailmen', 'mails', 'maimed', ,
  'main', 'maine', 'mainland', 'mainlines', 'mainly', ,
  'mainstream', 'maintain', 'maintained', 'maintaining', ,
  'maintenance', 'majesty', 'major', 'majored', 'majoring', ,
  'majority', 'majors', 'mak', 'makable', 'make', 'maker', ,
  'makers', 'makes', 'makeup', 'making', 'malaysia', ,
  'malaysian', 'male', 'malfunction', 'malia', 'malibu', ,
  'malice', 'malik', 'mall', 'malls', 'malts', 'mam', 'mammal',
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19 ', 'managing', 'manakin', 'manchester', 'mand', 'mandarin',
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  'manicole', 'manicure', 'manicured', 'manicures', ' '
  'manicurist', 'manifesto', 'manikin', 'manly', 'manner', ' '
  'manners', 'mansion', 'mantel', 'mantelpiece', 'manual', ' '
  'manually', 'manuals', 'manufacture', 'manufactured', ' '
  'manufacturer', 'manufacturers', 'manufactures', ' '
  'manufacturing', 'many', 'mao', 'map', 'maple', 'maples', ' '
  'mapo', 'mapping', 'mapquest', 'maps', 'mar', 'maradona', ' '
  'marathon', 'marble', 'marbles', 'march', 'marche', 'marcia',
  ', 'marco', 'mare', 'margaret', 'margarita', 'margaritas',
  ', 'marge', 'margin', 'margins', 'maria', 'marian', 'marie',
  ', 'marijuana', 'marilyn', 'marinade', 'marinate', ' '
  'marinated', 'marine', 'marino', 'mario', 'maris', 'marissa',
  ', 'marital', 'mark', 'marked', 'markers', 'market', ' '
  'marketability', 'marketable', 'marketed', 'marketing', ' '
  'markets', 'markford', 'marking', 'markowski', 'marks', ' '
  'markweed', 'marmalade', 'maroon', 'marquet', 'marquette',
  ', 'marquise', 'marriage', 'marriages', 'married', ' '
  'marring', 'marriott', 'marry', 'marrying', 'mars', ' '
  'marsalis', 'marsh', 'marsha', 'marshal', 'marshall', ' '
  'marston', 'mart', 'martha', 'martial', 'martin', 'martini',
  ', 'marty', 'marvel', 'marvellous', 'marvelous', ' '
  'marvelously', 'mary', 'maryland', 'marys', 'masala', ' '
  'mascara', 'mascots', 'mash', 'masha', 'mashed', 'mask', ' '
  'masks', 'mason', 'masques', 'mass', 'massachusetts', ' '
  'massage', 'massagers', 'massages', 'masseuse', 'massive',
  ', 'master', 'mastercard', 'mastered', 'masterpiece', ' '
  'masterpieces', 'masters', 'mastery', 'masturbation', 'mat',
  ', 'matai', 'match', 'matchbox', 'matched', 'matches', ' '
  'matching', 'matchmaker', 'mate', 'material', 'materials',
  ', 'maternal', 'maternity', 'mates', 'math', 'mathematical',
  ', 'mathematician', 'mathematics', 'maths', 'matinee', ' '
  'matisse', 'matriarch', 'matrix', 'matron', 'mats', 'matt',
  ', 'matted', 'matter', 'mattered', 'matters', 'matthew', ' '
  'mattress', 'mattresses', 'mature', 'mature', 'matured',
  ', 'maturing', 'maturity', 'maurice', 'mauve', 'maws', ' '
  'max', 'maxed', 'maxes', 'maximal', 'maximise', 'maximize',
  ', 'maximum', 'maxine', 'may', 'maya', 'maybe', 'maye', ' '
  'mayhew', 'mayo', 'mayonnaise', 'mayor', 'mayors', 'mazda',
  ', 'maze', 'mb', 'mba', 'mbps', 'mc', 'mcbride', 'mccain',
  ', 'mccormick', 'mcdonald', 'mcdowell', 'mcgrath', ' '
  'mcintosh', 'mckenna', 'mcknight', 'mcneal', 'mcquillin', ' '
  'md', 'md5', 'meal', 'meally', 'meals', 'mealtimes', 'mean',
  ', 'meaning', 'meaningful', 'meaningless', 'meanings', ' '
  'meanly', 'means', 'meant', 'meantime', 'meanwhile', ' '

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19 measles', 'measure', 'measured', 'measurement', 'measurements', 'measures', 'measuring', 'meat', 'meats', 'mecca', 'mechanic', 'mechanical', 'mechanics', 'mechanism', 'mechanized', 'mechwarrior', 'med', 'medal', 'medals', 'media', 'median', 'mediated', 'mediator', 'medical', 'medicare', 'medication', 'medications', 'medicine', 'medicines', 'medieval', 'mediocre', 'meditate', 'meditation', 'medium', 'mediums', 'medium', 'mee', 'meek', 'meet', 'meeting', 'meetings', 'meetingwith', 'meets', 'meg', 'mega', 'megabytes', 'megan', 'megapixel', 'megapixels', 'mei', 'meihua', 'mein', 'mel', 'melaena', 'melanie', 'melboume', 'melbourne', 'melinda', 'melissa', 'mellowed', 'melodies', 'melody', 'melons', 'melt', 'melted', 'melting', 'member', 'members', 'membership', 'memberships', 'memento', 'memo', 'memorandum', 'memorandums', 'memorial', 'memories', 'memorise', 'memorize', 'memorized', 'memorizing', 'memory', 'memos', 'men', 'mend', 'mended', 'mendelssohn', 'mendez', 'mendoza', 'mendy', 'meng', 'meningitis', 'ment', 'mental', 'mentality', 'mentally', 'mention', 'mentioned', 'mentioning', 'mentors', 'ments', 'menu', 'menuhin', 'menus', 'menzies', 'meow', 'merchandise', 'merchant', 'merchants', 'mercury', 'mercy', 'mere', 'meredith', 'merely', 'merge', 'merger', 'mergers', 'merging', 'meridian', 'merits', 'merrier', 'merriman', 'merry', 'merton', 'meskerem', 'mess', 'message', 'messages', 'messaging', 'messed', 'messenger', 'messes', 'messier', 'messing', 'messy', 'met', 'metabolism', 'metal', 'metalworking', 'meteorological', 'meteors', 'meter', 'meters', 'method', 'methods', 'methone', 'meting', 'metres', 'metric', 'metro', 'metropolis', 'metropolitan', 'mew', 'mexican', 'mexicans', 'mexico', 'mezzanine', 'mg', 'mia', 'mia', 'miami', 'miao', 'mic', 'mice', 'michael', 'michelle', 'michelson', 'michigan', 'mick', 'mickey', 'micro', 'microcosm', 'microeconomics', 'micromanage', 'microphone', 'microphones', 'micropower', 'microscopic', 'microsoft', 'microwave', 'microwaved', 'mid', 'midday', 'middle', 'middlemen', 'middling', 'midfield', 'midnight', 'midterm', 'midwest', 'mien', 'might', 'mignon', 'migrated', 'migrating', 'mike', 'mikel', 'milan', 'mild', 'mildew', 'mildly', 'mildred', 'mile', 'mileage', 'miles', 'milestones', 'milford', 'militarists', 'military', 'milk', 'milkshake', 'milkshakes', 'milky', 'mill', 'millan', 'millennium', 'miller', 'millie', 'milliken', 'milling', 'million', 'millionaire', 'millionaires', 'millions', 'millionth', 'milton', 'milwaukee', 'min', 'mina', 'minced', 'mind', 'minded', 'mindless', 'mindlessly'

19 ', 'minds', 'mindset', 'mindy', 'mine', 'mineral', 'minerals', 'mines', 'ming', 'mingle', 'mini', 'minibar', 'minimal', 'minimises', 'minimize', 'minimum', 'miniscule', 'miniskirt', 'minister', 'ministers', 'ministry', 'minivan', 'mink', 'minneapolis', 'minnesota', 'minnows', 'minor', 'minored', 'minorities', 'minority', 'mins', 'mint', 'mints', 'minuets', 'minus', 'minute', 'minutes', 'miracle', 'miriam', 'mirror', 'mirrors', 'mis', 'misbehave', 'miscalculation', 'miscellaneous', 'mischief', 'misconceptions', 'misconduct', 'misdialed', 'miser', 'miserable', 'misery', 'misfortune', 'misgivings', 'mishap', 'mishappening', 'misheard', 'misinterpreted', 'misjudged', 'mislaid', 'misleading', 'mismanaged', 'misplace', 'misplaced', 'misread', 'miss', 'missed', 'misses', 'missile', 'missing', 'mission', 'missy', 'mistake', 'mistaken', 'mistakenly', 'mistakes', 'mister', 'mistook', 'mistreatment', 'mistrusted', 'mists', 'misunderstand', 'misunderstanding', 'misunderstood', 'misuse', 'mit', 'mitch', 'mitchell', 'mitchum', 'mite', 'mitigate', 'mitsubishi', 'mittens', 'mitzuko', 'miun', 'mix', 'mixed', 'mixer', 'mixers', 'mixes', 'mixing', 'mixture', 'mm', 'mmm', 'mmmm', 'mo', 'mobile', 'mobility', 'moblogging', 'mocha', 'mochaccino', 'moday', 'mode', 'model', 'models', 'modem', 'moderate', 'moderately', 'moderating', 'modern', 'modernize', 'modes', 'modest', 'modestly', 'modesty', 'modifications', 'modify', 'moist', 'moisture', 'moisturize', 'moisturized', 'moisturizer', 'moisturizers', 'moisturizes', 'moisturizing', 'molars', 'mold', 'moldy', 'mole', 'molecular', 'molehill', 'molle', 'molopo', 'mom', 'moment', 'momentally', 'momentarily', 'moments', 'momentum', 'moming', 'momma', 'momment', 'mommy', 'moms', 'mon', 'mona', 'monaco', 'monday', 'mondays', 'monetary', 'money', 'moneylink', 'monger', 'mongolian', 'monica', 'monitor', 'monitors', 'monk', 'monkey', 'monkeys', 'monks', 'mono', 'monopolizing', 'monotonous', 'monoxide', 'monroe', 'monster', 'montezuma', 'montgomery', 'month', 'monthly', 'months', 'montreal', 'monument', 'mood', 'moods', 'moody', 'moon', 'moonlight', 'oooooooooooo', 'mooring', 'mop', 'moral', 'morale', 'more', 'morecambe', 'moreinformation', 'moreover', 'morgan', 'morgen', 'morley', 'mormon', 'mormons', 'morning', 'mornings', 'moroccan', 'morris', 'morrison', 'morissette', 'morrow', 'mortgage', 'mortgages', 'mortifying', 'mosquito', 'mosquitoes', 'mosquitos', 'mostly', 'mot', 'motel', 'mother', 'motherland', 'mothers', 'moths', 'motion', 'motivate', 'motivated', 'motivates', 'motivation', 'motivational', 'motive', 'motives', '

19 'motor', 'motorbike', 'motorcycle', 'motorists', 'motorola', 'motorway', 'motto', 'mount', 'mountain', 'mountaineering', 'mountainous', 'mountains', 'mounted', 'mountie', 'mounting', 'mourn', 'mousaka', 'mouse', 'mousse', 'moustache', 'moutan', 'mouth', 'mouthed', 'mouthfuls', 'mouths', 'mouthwatering', 'movable', 'move', 'moved', 'movement', 'movements', 'mover', 'movers', 'moves', 'movie', 'movies', 'moving', 'mow', 'mowed', 'mows', 'mozart', 'mozzarella', 'mp', 'mp3', 'mp4', 'mph', 'mppd', 'mr', 'mrcrabby', 'mrs', 'ms', 'ms121', 'ms2119', 'ms701', 'msg', 'msn', 'mu', 'much', 'mud', 'muddy', 'mudpack', 'mudslide', 'mudslides', 'muesli', 'mufasal', 'muffin', 'muffins', 'muffs', 'mug', 'mugged', 'mugs', 'mulberry', 'mulder', 'multi', 'multicolor', 'multinational', 'multiplayer', 'multiple', 'multiplied', 'multiplying', 'multitasking', 'multitude', 'multivision', 'multivitamin', 'mum', 'mumbo', 'mumm', 'mummy', 'mumps', 'mums', 'mun', 'munchies', 'munching', 'munich', 'municipal', 'mural', 'murder', 'murdered', 'murderer', 'murderers', 'murders', 'muriel', 'murphy', 'muscle', 'muscles', 'muscular', 'muse', 'museum', 'museums', 'mush', 'mushed', 'mushroom', 'mushrooms', 'mushy', 'music', 'musical', 'musicals', 'musician', 'musicianship', 'musics', 'muslim', 'muslims', 'mussels', 'mussolini', 'must', 'mustache', 'mustard', 'mustn', 'mutilates', 'mutiny', 'mutton', 'mutual', 'mutually', 'myers', 'myoma', 'myra', 'myrdal', 'mys', 'mysteries', 'mysterious', 'mystery', 'myths', 'na', 'naan', 'nachos', 'nacy', 'nada', 'nagging', 'nah', 'nail', 'nails', 'naive', 'naively', 'naked', 'nally', 'name', 'named', 'namely', 'names', 'nametag', 'nametags', 'nan', 'nanchang', 'nanchengmen', 'nancy', 'nandu', 'nani', 'nanjing', 'nanny', 'nanometer', 'nanometers', 'naomi', 'nap', 'napkin', 'napkins', 'naps', 'narrow', 'narrowed', 'narrowest', 'nasa', 'nasdaq', 'nashville', 'nasi', 'nasties', 'nasty', 'natasha', 'nathan', 'nathaniel', 'nation', 'national', 'nationalities', 'nationality', 'nations', 'nationwide', 'native', 'natives', 'natural', 'naturalization', 'naturally', 'nature', 'naughty', 'nausea', 'nauseous', 'navigation', 'navigator', 'navy', 'nay', 'nb13579', 'nba', 'ncc', 'ncp', 'neal', 'nealy', 'neapolitan', 'near', 'nearby', 'nearer', 'nearest', 'nearly', 'neat', 'neatly', 'necessarily', 'necessary', 'necessities', 'neck', 'necklace', 'necklaces', 'nectar', 'nee', 'need', 'needed', 'needing', 'needle', 'needles', 'needleless', 'needlework', 'needs', 'neel', 'negative', 'negatively', 'negatives', 'negativity', 'neglect', 'neglected', 'negotiable', 'negotiate', 'negotiated', '

19 'negotiating', 'negotiation', 'negotiations', 'negotiator', 'neighbor', 'neighborhood', 'neighborhoods', 'neighboring', 'neighborly', 'neighbors', 'neighbour', 'neighbourhood', 'neighbouring', 'neighbours', 'neil', 'neither', 'nelson', 'neon', 'nepal', 'nephew', 'nerd', 'nerve', 'nerves', 'nervous', 'nervousness', 'nescafe', 'nest', 'net', 'netflix', 'network', 'networking', 'networks', 'neuroanatomy', 'neurologist', 'neutral', 'never', 'nevertheless', 'neville', 'new', 'newbie', 'newbies', 'newborn', 'newcastle', 'newcomer', 'newcomers', 'newer', 'newest', 'newhouse', 'newly', 'newlyweds', 'newman', 'news', 'newsagent', 'newsletter', 'newspaper', 'newspapers', 'newsworld', 'newton', 'next', 'nextweek', 'nez', 'niagara', 'nibble', 'nibbling', 'nice', 'nicely', 'nicer', 'nicest', 'nicholas', 'nick', 'nickel', 'nickels', 'nicklaus', 'nickleby', 'nicknames', 'nicola', 'nicole', 'nicotine', 'niece', 'nielson', 'nigel', 'nigeria', 'nigerian', 'nigh', 'night', 'nightclub', 'nighter', 'nighties', 'nightingales', 'nightlife', 'nightly', 'nightmare', 'nightmares', 'nightmarish', 'nights', 'nightstand', 'nighty', 'nika', 'nike', 'nikki', 'nikon', 'nile', 'nimble', 'nina', 'nine', 'ninecan', 'nines', 'nineteen', 'nineteenth', 'ninety', 'ningpo', 'ninth', 'nirvana', 'nisei', 'nissan', 'nit', 'nitrogen', 'nm', 'no', 'nobel', 'noble', 'nobody', 'nobut', 'nod', 'noirin', 'noise', 'noises', 'noisy', 'nokia', 'nominal', 'nominated', 'nominations', 'nominees', 'non', 'noncommercial', 'none', 'nonexistent', 'nonsense', 'nonsmoking', 'nonstandard', 'nonstop', 'noodle', 'noodles', 'noon', 'nope', 'nor', 'nora', 'nordstrom', 'norm', 'normal', 'normally', 'normandy', 'north', 'northeast', 'northern', 'northey', 'northward', 'northwards', 'northwest', 'northwoods', 'norton', 'norway', 'nose', 'noses', 'nosey', 'nostalgic', 'nosy', 'not', 'notarize', 'notarizing', 'notch', 'note', 'notebook', 'notebooks', 'noted', 'notepad', 'notes', 'nothing', 'nothings', 'notice', 'noticeable', 'noticed', 'notices', 'noticing', 'notification', 'notified', 'notify', 'notion', 'notions', 'notoriously', 'nottingham', 'nov', 'nova', 'novel', 'novelist', 'novels', 'november', 'nowaday', 'nowadays', 'nowhere', 'nt', 'nuance', 'nuclear', 'nudity', 'nugent', 'nuggets', 'nuisance', 'numbed', 'number', 'numbered', 'numbers', 'numbness', 'numerous', 'nup', 'nurse', 'nursed', 'nursery', 'nurses', 'nursing', 'nut', 'nutrients', 'nutrition', 'nutritional', 'nutritionists', 'nutritions', 'nutritious', 'nuts', 'nutshell', 'nv', 'nw', 'nwa', 'nx567822100007', 'nylon', 'nyu', 'o5', 'o5tswal', 'oak', 'oakfield', '

19 oaks', 'oaky', 'oath', 'oatmeal', 'obama', 'obedient', 'obese', 'obey', 'obituary', 'object', 'objection', 'objections', 'objective', 'objectively', 'objectives', 'objectivity', 'objects', 'obligated', 'obligations', 'oblivious', 'oblone', 'obnoxious', 'obscene', 'observant', 'observation', 'observe', 'observed', 'observer', 'observing', 'obsessed', 'obsolete', 'obstacles', 'obtain', 'obtained', 'obtaining', 'obvious', 'obviously', 'occasion', 'occasional', 'occasionally', 'occasions', 'occident', 'occupancy', 'occupation', 'occupational', 'occupied', 'occupy', 'occur', 'occurred', 'occurring', 'ocean', 'oceans', 'ocher', 'oct', 'octave', 'october', 'octopus', 'odd', 'odds', 'odour', 'oes', 'offence', 'offend', 'offended', 'offense', 'offensive', 'offer', 'offerbased', 'offered', 'offering', 'offers', 'office', 'officer', 'officers', 'offices', 'official', 'officialalese', 'officially', 'officials', 'officiate', 'officiating', 'offline', 'offs', 'offside', 'offsides', 'ofprogrammes', 'often', 'oftentimes', 'oh', 'ohhhh', 'ohhhhh', 'ohio', 'ohm', 'ohp', 'oil', 'oiled', 'oilier', 'oils', 'oily', 'ointment', 'oisin', 'oj', 'ok', 'okapi', 'okay', 'okey', 'oklahoma', 'okro', 'old', 'older', 'oldest', 'oldies', 'ole', 'olga', 'olive', 'oliver', 'olives', 'olsen', 'olympia', 'olympic', 'olympics', 'olympus', 'om', 'ombudsman', 'omelet', 'omit', 'omitted', 'ommend', 'omnipresent', 'onaway', 'onboard', 'onc', 'one', 'onemonth', 'ones', 'oneself', 'onetimel', 'ongoing', 'onion', 'onions', 'online', 'onlytwo', 'ons', 'onset', 'onto', 'onxiu', 'oo', 'ooh', 'oolong', 'oooh', 'oooo', 'oops', 'opaque', 'open', 'opened', 'opening', 'openings', 'openly', 'opens', 'opera', 'operas', 'operate', 'operated', 'operates', 'operating', 'operation', 'operations', 'operative', 'operator', 'operators', 'ophelia', 'opinion', 'opinions', 'opium', 'opponent', 'opponents', 'opportunities', 'opportunity', 'opposed', 'opposing', 'opposite', 'opposites', 'opposition', 'oppressive', 'oprah', 'opt', 'optical', 'optimistic', 'optimums', 'option', 'optional', 'options', 'optometry', 'or25', 'oracle', 'oral', 'orange', 'oranges', 'orbited', 'orchestra', 'orchid', 'order', 'ordered', 'ordering', 'orders', 'ordinarily', 'ordinary', 'oreal', 'oregon', 'oreo', 'org', 'organ', 'organic', 'organisation', 'organised', 'organism', 'organization', 'organizational', 'organizations', 'organize', 'organized', 'organizers', 'organizes', 'organizing', 'organs', 'orgasm', 'orient', 'oriental', 'orientation', 'oriented', 'origin', 'original', 'originality', 'originally', 'originals', 'originated', '

19 originates', 'originating', 'origins', 'orion', 'orlando', 'orleans', 'ornament', 'ornamental', 'ornaments', 'os', 'osaka', 'oscar', 'oscars', 'osmosis', 'ost', 'ostentatious', 'ot', 'otc', 'othe', 'other', 'others', 'otherwise', 'otherworldly', 'othman', 'otis', 'ottawa', 'ou', 'ouch', 'ouen', 'ought', 'oughtn', 'oulong', 'ounce', 'ounces', 'outback', 'outbid', 'outby', 'outdated', 'outdoor', 'outdoors', 'outer', 'outfield', 'outfielder', 'outfit', 'outfits', 'outgoing', 'outing', 'outlet', 'outlets', 'outline', 'outlines', 'outlook', 'outlooks', 'outnumber', 'outpatient', 'outperformed', 'output', 'outrage', 'outrageous', 'outs', 'outset', 'outside', 'outsider', 'outskirts', 'outsmart', 'outsourced', 'outspoken', 'outstanding', 'outstealing', 'outstrips', 'outta', 'outthrough', 'outward', 'outweigh', 'oval', 'ovation', 'oven', 'ovens', 'overall', 'overbearing', 'overboard', 'overbook', 'overbooked', 'overcast', 'overcharge', 'overcharged', 'overcharging', 'overcoat', 'overcoats', 'overcome', 'overcoming', 'overcook', 'overcooked', 'overdo', 'overdoing', 'overdone', 'overdose', 'overdraft', 'overdrafting', 'overdrawn', 'overdressed', 'overdue', 'overeater', 'overflow', 'overflowed', 'overflowing', 'overgrown', 'overhaul', 'overhead', 'overhear', 'overheard', 'overheated', 'overload', 'overlook', 'overlooked', 'overlooking', 'overly', 'overnight', 'overpaid', 'overpass', 'overpowered', 'overpowering', 'overpriced', 'overrated', 'overreact', 'overreacting', 'overriding', 'overrules', 'overrun', 'oversea', 'overseas', 'oversee', 'oversight', 'oversize', 'overslept', 'oversour', 'overspent', 'overstaffed', 'overstock', 'overstocked', 'overtake', 'overtaken', 'overtime', 'overtired', 'overturned', 'overview', 'overweight', 'overwhelmed', 'overwhelming', 'overwork', 'overworked', 'ow', 'owe', 'owed', 'owen', 'owens', 'owes', 'owing', 'owl', 'owned', 'owner', 'owners', 'ownership', 'ownerships', 'owning', 'owns', 'oxford', 'oxides', 'oxygen', 'oyster', 'oysters', 'oz', 'ozone', 'pa', 'pace', 'pacific', 'pacing', 'pack', 'package', 'packaged', 'packages', 'packaging', 'packed', 'packer', 'packet', 'packets', 'packing', 'packs', 'pad', 'padded', 'padding', 'paddles', 'paddling', 'pads', 'page', 'paged', 'pager', 'pages', 'paging', 'paid', 'pail', 'pain', 'pained', 'painful', 'painkillers', 'pains', 'painstaking', 'paint', 'painted', 'painter', 'painters', 'painting', 'paintings', 'pair', 'pairs', 'pairszone', 'pajamas', 'pakistan', 'pakistani', 'pal', 'palace', 'palaces', 'palatable', 'palate', 'pale', 'paler', 'pallbearers', '

19 pallets', 'palm', 'palmistry', 'palms', 'pals', 'pam', 'pamela', 'pamper', 'pamphlet', 'pamphlets', 'pan', 'panadol', 'panama', 'panasonic', 'pancakes', 'panda', 'pandas', 'panel', 'panic', 'panini', 'panning', 'pans', 'pant', 'pantaloons', 'panter', 'panties', 'pants', 'panty', 'pantyhose', 'pao', 'papa', 'paparazzi', 'papaya', 'paper', 'paperand', 'paperback', 'paperbacks', 'papers', 'paperwork', 'par', 'parade', 'parades', 'paradise', 'paralegal', 'parallel', 'paralympics', 'paramedics', 'paranoid', 'paraphernalia', 'parcel', 'parcels', 'parched', 'pardon', 'parent', 'parental', 'parents', 'parfait', 'paris', 'park', 'parked', 'parker', 'parking', 'parks', 'parliament', 'parlor', 'parlour', 'parrot', 'parry', 'parsnips', 'parsons', 'part', 'partake', 'parted', 'partial', 'partially', 'participants', 'participate', 'participated', 'participating', 'participation', 'participator', 'particles', 'particular', 'particularly', 'particulars', 'partie', 'parties', 'parting', 'partly', 'partlycloudy', 'partner', 'partners', 'partnership', 'partnerships', 'parts', 'party', 'partying', 'pasadena', 'pass', 'passage', 'passages', 'passbook', 'passcode', 'passe', 'passed', 'passenger', 'passengers', 'passers', 'passes', 'passing', 'passion', 'passionate', 'passive', 'passively', 'passport', 'passports', 'password', 'passwords', 'past', 'pasta', 'paste', 'pasted', 'pastime', 'pastrami', 'pastries', 'pastry', 'pat', 'patch', 'pate', 'patent', 'patents', 'pater', 'paternity', 'path', 'pathetic', 'pathos', 'paths', 'pathway', 'patience', 'patient', 'patiently', 'patients', 'patio', 'patricia', 'patrick', 'patriotic', 'patriots', 'patrol', 'patronize', 'patronizing', 'patrons', 'pattern', 'patterns', 'patterson', 'patti', 'patties', 'patty', 'patulin', 'paubler', 'paul', 'paula', 'pauline', 'paulo', 'paunchy', 'pause', 'pavarotti', 'pave', 'paved', 'pavel', 'pavement', 'pavements', 'pavilion', 'pavilions', 'pawns', 'pay', 'payable', 'paycheck', 'paychecks', 'payday', 'payee', 'paying', 'payment', 'payments', 'payoff', 'paypal', 'payroll', 'pays', 'pb', 'pb12', 'pb965', 'pbc', 'pc', 'pcc', 'pcs', 'pd672', 'pe', 'peace', 'peaceful', 'peacefully', 'peacekeepers', 'peacemaker', 'peach', 'peaches', 'peak', 'peaked', 'peaks', 'peanut', 'peanuts', 'pear', 'pearbrittles', 'pearl', 'pearls', 'pears', 'peas', 'pebble', 'pecan', 'pecked', 'peckham', 'pecs', 'peculiar', 'pedal', 'pediatrics', 'pedicure', 'pedicures', 'pee', 'peeing', 'peek', 'peel', 'peeled', 'peeler', 'peeling', 'peep', 'peepers', 'peeping', 'peered', 'peers', 'peking', 'pen', 'penalties', 'penalty', 'pence', '

19 pencil', 'pencils', 'pendant', 'pendent', 'pending', 'penetrate', 'penetrated', 'peng', 'penguins', 'penicillin', 'peninsula', 'pennies', 'penniless', 'pennsylvania', 'penny', 'pens', 'pension', 'pent', 'pentagon', 'penthouses', 'peony', 'people', 'peoples', 'pepper', 'peppermint', 'pepperoni', 'peppers', 'peppery', 'pepsi', 'pepsis', 'per', 'perceive', 'percent', 'percentage', 'percentages', 'perception', 'perfect', 'perfection', 'perfectionist', 'perfectly', 'perforate', 'perform', 'performance', 'performances', 'performed', 'performing', 'performs', 'perfume', 'perfumers', 'perfumes', 'perhaps', 'period', 'periodic', 'periodicals', 'periods', 'peripheral', 'perk', 'perks', 'perm', 'permanent', 'permanently', 'permissible', 'permission', 'permit', 'permits', 'permitted', 'peron', 'perpetuity', 'perrier', 'perriers', 'persecuted', 'persecution', 'perseverance', 'persevering', 'persian', 'persist', 'persistence', 'persists', 'person', 'personable', 'personal', 'personalities', 'personality', 'personalized', 'personally', 'personnel', 'persons', 'perspective', 'perspectives', 'perspired', 'persuade', 'persuaded', 'persuading', 'persuasive', 'perth', 'pertinent', 'peru', 'pervert', 'pescatarian', 'pesky', 'pesos', 'pessimist', 'pessimistic', 'pest', 'pesticides', 'pesto', 'pests', 'pet', 'petal', 'petals', 'pete', 'peter', 'peters', 'peterson', 'petite', 'petition', 'petra', 'petrified', 'petrochemical', 'petrol', 'petroleum', 'pets', 'petti', 'petty', 'pewless', 'pg', 'ph', 'phantom', 'pharmaceutic', 'pharmaceutical', 'pharmacist', 'pharmacy', 'phase', 'phd', 'phenomena', 'phenomenal', 'phenomenon', 'phew', 'phi', 'phibians', 'phil', 'philadelphia', 'philately', 'philharmonic', 'philimore', 'philip', 'philips', 'phillip', 'phillips', 'philosophical', 'philosophies', 'philosophy', 'phobias', 'phoebe', 'phoenix', 'phone', 'phoned', 'phones', 'phoney', 'phoning', 'phony', 'phosphate', 'photo', 'photocopier', 'photocopies', 'photocopy', 'photoframe', 'photograph', 'photographed', 'photographer', 'photographers', 'photographing', 'photographs', 'photography', 'photos', 'photostat', 'phrase', 'phrases', 'phrasing', 'phs', 'phyllis', 'physical', 'physically', 'physician', 'physicians', 'physics', 'physiological', 'physiotherapy', 'physique', 'pi', 'pian', 'pianissimo', 'pianist', 'piano', 'pianos', 'picasso', 'piccadilly', 'pick', 'picked', 'picket', 'picking', 'pickles', 'picks', 'pickup', 'picky', 'picnic', 'picnicking', 'picnics', 'pics', 'picture', 'pictures', 'picturesque', 'pie', 'piece', 'pieces', 'pier', '

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  'respectful', 'respectively', 'respects', 'respiratory', ,
  'respond', 'responded', 'responding', 'response', ,
  'responses', 'responsibilities', 'responsibility', ,
  'responsible', 'responsibly', 'rest', 'restart', 'restate',
  ', 'restaurant', 'restaurants', 'rested', 'resting', ,
  'restless', 'restock', 'restocked', 'restocking', 'restore',
  ', 'restored', 'restoring', 'restrict', 'restricted', ,
  'restricting', 'restriction', 'restrictions', 'restroom', ,
  'restrooms', 'result', 'resulting', 'results', 'resume', ,
  'resumes', 'resurrected', 'resuscitation', 'retail', ,
  'retailers', 'retake', 'retention', 'retest', 'rethink', ,
  'retire', 'retired', 'retirement', 'retires', 'retiring', ,
  'retreat', 'retreated', 'retro', 'return', 'returned', ,
  'returnees', 'returning', 'returns', 'retyped', '
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19 reunification', 'reunion', 'reunions', 'reveal', 'revealing', 'reveals', 'revenge', 'revenue', 'revenues', 'reverse', 'reversed', 'review', 'reviewed', 'reviewer', 'reviewing', 'reviews', 'revise', 'revised', 'revitalized', 'reviving', 'revocable', 'revocation', 'revolution', 'revolutionaries', 'revolutionary', 'revolved', 'revolver', 'revolving', 'reward', 'rewarded', 'rewarding', 'rewards', 'rewired', 'rework', 'rewrite', 'reynolds', 'rhaki', 'rhinitis', 'rhode', 'rhone', 'rhumba', 'rhymes', 'rhythm', 'rhythms', 'rib', 'ribbed', 'ribbon', 'ribero', 'ribs', 'rica', 'rice', 'rich', 'richard', 'richards', 'richardson', 'richer', 'riches', 'richest', 'richie', 'richness', 'richter', 'richton', 'rick', 'ricky', 'ricocheted', 'rid', 'ridden', 'ride', 'rider', 'rides', 'ridicule', 'ridiculous', 'ridiculously', 'riding', 'ridleys', 'ries', 'riggs', 'right', 'rightfully', 'rightly', 'rights', 'rigid', 'rigor', 'rigorous', 'rikknen', 'riley', 'rimbaud', 'ring', 'ringbone', 'ringer', 'ringing', 'rings', 'rink', 'rinse', 'riot', 'riots', 'rip', 'ripe', 'ripen', 'ripped', 'rise', 'risen', 'riser', 'rises', 'rising', 'risk', 'risking', 'risks', 'risky', 'ristretto', 'rita', 'ritual', 'ritz', 'ritzy', 'rival', 'river', 'riverboat', 'rivers', 'riverside', 'rmm', 'roaches', 'road', 'roads', 'roadwork', 'roaming', 'roars', 'roast', 'roasted', 'roasting', 'roasts', 'rob', 'robbed', 'robber', 'robbers', 'robbery', 'robbing', 'robbins', 'robe', 'robert', 'roberts', 'robes', 'robin', 'robinson', 'robot', 'robotic', 'robots', 'robs', 'robson', 'robust', 'rochelle', 'rochester', 'rock', 'rockefeller', 'rockery', 'rocket', 'rockets', 'rocking', 'rocks', 'rocky', 'rod', 'rode', 'rodents', 'rodgers', 'rodriguez', 'rods', 'roger', 'rogers', 'roland', 'role', 'roles', 'rolex', 'role', 'roll', 'rollaways', 'rolled', 'roller', 'rollerblading', 'rollers', 'rolling', 'rollover', 'rolls', 'rolly', 'rolodex', 'rom', 'roman', 'romance', 'romances', 'romania', 'romanian', 'romans', 'romantic', 'rome', 'romeo', 'roms', 'ron', 'roof', 'roofer', 'rook', 'rookie', 'room', 'roommate', 'roommates', 'rooms', 'roomy', 'root', 'rooted', 'roots', 'rope', 'ropes', 'ros', 'rosary', 'rose', 'rosedale', 'rosemary', 'roses', 'ross', 'rot', 'rotate', 'rotates', 'rotation', 'rotes', 'roth', 'rotted', 'rotten', 'rough', 'roughly', 'roughness', 'roughs', 'round', 'roundabout', 'rounded', 'rounds', 'route', 'router', 'routes', 'routine', 'routines', 'routing', 'row', 'rowing', 'rows', 'roy', 'royal', 'royalty', 'rpg', 'rsi', 'rto', 'ru', 'rub', 'rubber', 'rubbing', 'rubbish', 'rubble', 'rubella', 'rubik', 'rubin'

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19 ', 'rubs', 'ruby', 'rude', 'rudely', 'rudeness', 'ruedesheim', 'rudolph', 'rudy', 'rug', 'rugby', 'ruin', 'ruined', 'ruining', 'ruins', 'rule', 'ruled', 'rulers', 'rules', 'rum', 'rumba', 'rummage', 'rumor', 'rumored', 'rumors', 'rumours', 'run', 'runaround', 'rung', 'runner', 'runners', 'running', 'runny', 'runs', 'runway', 'rupees', 'rural', 'rush', 'rushed', 'rushing', 'russia', 'russian', 'russians', 'rust', 'rusty', 'rut', 'ruth', 'ruthless', 'rw', 'ryan', 'rye', 'ryefield', 'sa', 'sabers', 'sabotage', 'sachs', 'sack', 'sacked', 'sacking', 'sacred', 'sacrifice', 'sacrificed', 'sacrifices', 'sad', 'saddle', 'saddles', 'sadly', 'sadness', 'safe', 'safeguard', 'safely', 'safer', 'safest', 'safety', 'sag', 'sage', 'sagging', 'saggy', 'sagittarius', 'said', 'saidthey', 'saikei', 'sail', 'sailed', 'sailing', 'sailings', 'sailor', 'saimin', 'saint', 'saints', 'sake', 'salad', 'salads', 'salami', 'salaried', 'salaries', 'salary', 'sale', 'sales', 'salesclerk', 'salesgirl', 'salesman', 'salesmen', 'salespeople', 'salesperson', 'saleswoman', 'saline', 'saliva', 'sally', 'sallycome', 'salmon', 'salon', 'saloon', 'sals', 'salsa', 'salt', 'salts', 'saltwater', 'salty', 'salutation', 'salute', 'salve', 'sam', 'samantha', 'samba', 'sammy', 'samosa', 'samosas', 'sample', 'samples', 'sampson', 'samsonite', 'samsung', 'samuel', 'san', 'sanctuary', 'sand', 'sandals', 'sandalwood', 'sandbar', 'sandbox', 'sandcastle', 'sanderson', 'sandpaper', 'sandra', 'sandrawu', 'sandstorm', 'sandstorms', 'sandwich', 'sandwiches', 'sandy', 'sane', 'sang', 'sanger', 'sangria', 'sanitary', 'sanitation', 'sank', 'sanlitun', 'santa', 'santos', 'sanyu', 'sanyuan', 'sapphire', 'sapporo', 'sara', 'sarah', 'sarcastic', 'sardines', 'sars', 'sashimi', 'sat', 'satanic', 'satchel', 'satellite', 'satin', 'satisfaction', 'satisfactorily', 'satisfactory', 'satisfied', 'satisfies', 'satisfy', 'satisfying', 'satura', 'saturated', 'saturday', 'saturdays', 'sauce', 'saucepans', 'saucepans', 'saucers', 'sauces', 'saudi', 'sauna', 'saunders', 'sausage', 'sausages', 'sauta', 'sauvignon', 'savannah', 'save', 'saved', 'saver', 'savers', 'saves', 'saving', 'savings', 'savor', 'savored', 'savoring', 'savory', 'saw', 'sawdust', 'sawing', 'saxton', 'say', 'saya', 'saying', 'says', 'sayuri', 'sca', 'scalded', 'scale', 'scales', 'scallion', 'scallions', 'scalpers', 'scam', 'scan', 'scandal', 'scandalous', 'scandals', 'scandinavian', 'scanner', 'scanning', 'scans', 'scanty', 'scar', 'scarce', 'scare', 'scared', 'scares', 'scarf', 'scaring', 'scarlet', 'scarves', 'scary', 'scattered', 'scenario', 'scene', 'sceneries', 'scenery', '

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19 scenes', 'scenic', 'scent', 'scented', 'scents', 'schedule', 'scheduled', 'schedules', 'scheduling', 'scheme', 'scheming', 'schindler', 'schliessman', 'schmidt', 'schneider', 'schnitt', 'scholar', 'scholarship', 'scholarships', 'school', 'schoolgirl', 'schooling', 'schoolmate', 'schoolmates', 'schools', 'schoolwork', 'schwarzenegger', 'sci', 'science', 'scientific', 'scientist', 'scientists', 'scissors', 'scm', 'scold', 'scolded', 'scolding', 'scoop', 'scooter', 'scooters', 'scope', 'scorching', 'score', 'scored', 'scores', 'scoring', 'scorsese', 'scotch', 'scotland', 'scotsman', 'scott', 'scottish', 'scouting', 'scrabble', 'scram', 'scrambled', 'scrambling', 'scrap', 'scraped', 'scraping', 'scrapping', 'scratch', 'scratched', 'scratches', 'scratching', 'screamed', 'screaming', 'screen', 'screening', 'screens', 'screw', 'screwdriver', 'screwed', 'screwing', 'screws', 'scries', 'scrim', 'script', 'scrolls', 'scrooge', 'scrub', 'scrubbing', 'scuba', 'sculpture', 'sculptures', 'scurf', 'sdi', 'sea', 'seafood', 'seal', 'sealed', 'seals', 'seam', 'seamail', 'seamstress', 'sean', 'search', 'searched', 'searching', 'sears', 'seas', 'seascapes', 'seashell', 'seashells', 'seashore', 'seasick', 'seasickness', 'seaside', 'season', 'seasonal', 'seasonally', 'seasoning', 'seasonings', 'seasons', 'seat', 'seatbelt', 'seated', 'seater', 'seating', 'seats', 'seattle', 'seaweed', 'seaworthy', 'sec', 'secession', 'seclude', 'second', 'secondary', 'secondhand', 'secondly', 'seconds', 'secret', 'secretarial', 'secretaries', 'secretary', 'secretive', 'secrets', 'sectary', 'section', 'sections', 'sector', 'sectors', 'secure', 'secured', 'securely', 'securities', 'security', 'sedan', 'sedate', 'sedatives', 'sedentary', 'seduce', 'seduced', 'see', 'seed', 'seeds', 'seedy', 'seeing', 'seeingyou', 'seek', 'seeker', 'seekers', 'seeking', 'seem', 'seemed', 'seemingly', 'seems', 'seen', 'sees', 'segment', 'segments', 'segregated', 'seiko', 'seine', 'seinfeld', 'seismic', 'seize', 'seized', 'seizure', 'seldom', 'select', 'selected', 'selecting', 'selection', 'selections', 'selective', 'self', 'selfish', 'selfishness', 'sell', 'seller', 'sellers', 'selling', 'sells', 'semester', 'semesters', 'semi', 'semifinals', 'semimonthly', 'seminar', 'seminars', 'senator', 'send', 'sender', 'sending', 'sends', 'senior', 'seniority', 'seniors', 'sensation', 'sense', 'sensibility', 'sensible', 'sensitive', 'sensor', 'sensual', 'sent', 'sentence', 'sentenced', 'sentences', 'sentimental', 'sentiments', 'seoul', 'sep', 'separate', 'separated', 'separately', 'separates', 'separation', '

19 separatists', 'sepia', 'sept', 'september', 'sequel', 'sequence', 'sequins', 'serena', 'serge', 'serial', 'series', 'serious', 'seriously', 'serous', 'servant', 'servants', 'serve', 'served', 'server', 'serves', 'service', 'serviced', 'services', 'servicing', 'serviettes', 'serving', 'sesame', 'session', 'sessional', 'sessions', 'set', 'seta', 'sets', 'setter', 'setting', 'settings', 'settle', 'settled', 'settlement', 'settlers', 'settles', 'settling', 'setup', 'seven', 'seventeen', 'seventeenth', 'seventh', 'seventieth', 'seventy', 'several', 'severance', 'severe', 'severely', 'severer', 'severing', 'sew', 'sewed', 'sewen', 'sewing', 'sex', 'sexist', 'sexual', 'sexy', 'seymour', 'shabby', 'shade', 'shades', 'shadow', 'shadows', 'shafer', 'shaft', 'shake', 'shaken', 'shakers', 'shakes', 'shakespeare', 'shaking', 'shaky', 'shall', 'shallow', 'shame', 'shameful', 'shamefully', 'shampoo', 'shampooed', 'shampooing', 'shan', 'shandong', 'shane', 'shanghai', 'shangri', 'shania', 'shanna', 'shanti', 'shape', 'shaped', 'shapes', 'shaquille', 'shard', 'share', 'shared', 'shareholders', 'shares', 'sharing', 'shark', 'sharks', 'sharon', 'sharp', 'sharpen', 'sharpened', 'sharpeners', 'sharper', 'sharply', 'shaun', 'shave', 'shaved', 'shaver', 'shaving', 'shaw', 'she', 'shears', 'sheath', 'shed', 'sheep', 'sheer', 'sheerly', 'sheet', 'sheets', 'sheila', 'shelf', 'shell', 'shelled', 'shelley', 'shellfish', 'shells', 'shelly', 'shelter', 'sheltered', 'shelters', 'shelves', 'shen', 'sheng', 'shenyang', 'shenzhen', 'shepard', 'shepherds', 'sheriff', 'sherman', 'sherry', 'sheryl', 'shi', 'shield', 'shielded', 'shift', 'shifter', 'shifts', 'shih', 'shill', 'shills', 'shine', 'shiner', 'shines', 'shing', 'shining', 'shiningly', 'shinning', 'shiny', 'ship', 'shipbuilding', 'shipment', 'shipments', 'shipowner', 'shipped', 'shipper', 'shippers', 'shipping', 'ships', 'shirk', 'shirley', 'shirt', 'shirts', 'shit', 'shiver', 'shivering', 'sho', 'shoal', 'shock', 'shocked', 'shockproof', 'shoddy', 'shoe', 'shoelaces', 'shoes', 'shoestring', 'shogun', 'shone', 'shoot', 'shooter', 'shooting', 'shoots', 'shop', 'shopaholic', 'shopped', 'shoppers', 'shopping', 'shoppinglist', 'shops', 'shore', 'short', 'shortage', 'shortbread', 'shortbreads', 'shortcake', 'shortcoming', 'shortcut', 'shorten', 'shorter', 'shortest', 'shorthand', 'shortlist', 'shortly', 'shortness', 'shorts', 'shortsighted', 'shot', 'shotgun', 'shotput', 'shots', 'shoul', 'should', 'shoulder', 'shouldered', 'shoulders', 'shouldn', 'shout', 'shouted', 'shouting', 'shouts', 'shove', 'shovel', 'shovels', 'shoving', 'show', 'showed', '

19 'shower', 'showers', 'showing', 'shown', 'showroom', 'shows', 'showy', 'shred', 'shredded', 'shredder', 'shrek', 'shrieking', 'shrimp', 'shrimps', 'shrink', 'shrinking', 'shrunk', 'shucks', 'shuffle', 'shut', 'shutdowns', 'shuts', 'shutter', 'shutting', 'shuttle', 'shuttlecock', 'shuttles', 'shy', 'shyness', 'si', 'sian', 'siblings', 'sic', 'sicc', 'sichuan', 'sick', 'sickness', 'sickos', 'side', 'sideboard', 'sideburns', 'sided', 'sidelined', 'sides', 'sidestroke', 'sidewalk', 'sideways', 'sidney', 'siemens', 'sift', 'sifted', 'sigh', 'sight', 'sighted', 'sightly', 'sights', 'sightseeing', 'sign', 'signal', 'signals', 'signature', 'signatures', 'signed', 'significance', 'significant', 'significantly', 'signifies', 'signify', 'signing', 'signings', 'signposts', 'signs', 'sigrid', 'sihun', 'sik', 'silence', 'silent', 'silex', 'silicon', 'silk', 'silks', 'silky', 'silly', 'silver', 'silverfish', 'silvers', 'silverware', 'sim', 'simba', 'similar', 'similarities', 'similarly', 'simmons', 'simon', 'simons', 'simple', 'simpler', 'simplest', 'simplicity', 'simplified', 'simply', 'simpson', 'simulated', 'simulates', 'simulating', 'simultaneously', 'sin', 'sina', 'since', 'sincere', 'sincerely', 'sincerity', 'sing', 'singapore', 'singaporean', 'singed', 'singer', 'singers', 'singing', 'single', 'singled', 'singles', 'sings', 'singsong', 'sink', 'sinking', 'sinks', 'sino', 'sinuses', 'sip', 'sipped', 'sippers', 'sipping', 'sips', 'sir', 'sirens', 'sirloin', 'sirs', 'sis', 'sissy', 'sister', 'sisters', 'sit', 'sitcom', 'sitcoms', 'sitdown', 'site', 'sites', 'sits', 'sitter', 'sitters', 'sitting', 'situated', 'situation', 'situations', 'six', 'sixteen', 'sixteens', 'sixteenth', 'sixth', 'sixties', 'sixty', 'sizable', 'size', 'sizeable', 'sized', 'sizes', 'sizzling', 'skate', 'skateboard', 'skateboarding', 'skater', 'skates', 'skating', 'skeleton', 'skeptical', 'sketch', 'ski', 'skiers', 'skies', 'skiing', 'skilful', 'skill', 'skilled', 'skillful', 'skillfully', 'skills', 'skim', 'skimmed', 'skimpy', 'skin', 'skincare', 'skinned', 'skinnier', 'skinniest', 'skinny', 'skins', 'skip', 'skipped', 'skipping', 'skips', 'skirt', 'skirts', 'skis', 'skull', 'sky', 'skydiving', 'skype', 'skyrocketing', 'skys', 'skyscraper', 'skywalker', 'slack', 'slacker', 'slackning', 'slacks', 'slam', 'slammer', 'slant', 'slanting', 'slap', 'slate', 'slated', 'slaughter', 'slave', 'slavery', 'slaves', 'slaw', 'sledding', 'sleek', 'sleep', 'sleeper', 'sleeping', 'sleeps', 'sleepwear', 'sleepy', 'sleepyhead', 'sleet', 'sleeve', 'sleeved', 'sleeves', 'sleigh', 'slender', 'slept', 'slice', 'sliced', '

19 slices', 'slicing', 'slid', 'slide', 'slides', 'sliding', 'slight', 'slightest', 'slightly', 'slim', 'slimmer', 'slimming', 'slingbacks', 'slip', 'slipped', 'slippers', 'slippery', 'slips', 'slivers', 'sloan', 'slobs', 'slogan', 'slogans', 'slopes', 'sloping', 'slot', 'slouched', 'slove', 'slow', 'slowdown', 'slower', 'slowest', 'slowing', 'slowly', 'slows', 'slr', 'sluggish', 'slump', 'slums', 'slurp', 'slurping', 'sly', 'sm', 'smack', 'small', 'smaller', 'smallest', 'smallthings', 'smart', 'smarter', 'smartest', 'smarty', 'smash', 'smashed', 'smashes', 'smashing', 'smell', 'smelled', 'smelling', 'smells', 'smelly', 'smile', 'smiled', 'smiles', 'smiling', 'smith', 'smithfield', 'smiths', 'smog', 'smoke', 'smoked', 'smoker', 'smokers', 'smokes', 'smoking', 'smoky', 'smooth', 'smoothies', 'smoothing', 'smoothly', 'smothered', 'sms', 'smuggled', 'smuggling', 'smut', 'snack', 'snacking', 'snacks', 'snag', 'snail', 'snails', 'snake', 'snakes', 'snap', 'snapped', 'snapshot', 'snapshots', 'snatched', 'sneak', 'sneakers', 'sneakiest', 'sneaking', 'sneaky', 'sneeze', 'sneezing', 'snickers', 'sniffer', 'snipe', 'sniped', 'snipers', 'sniping', 'snitching', 'snob', 'snobbish', 'snoop', 'snooze', 'snored', 'snores', 'snorkeling', 'snow', 'snowboarding', 'snowed', 'snowfall', 'snowing', 'snowmaking', 'snowman', 'snows', 'snowshoes', 'snowstorms', 'snowy', 'snuck', 'soak', 'soaked', 'soap', 'soared', 'soaring', 'sob', 'sobered', 'soccer', 'soci', 'sociable', 'social', 'socialist', 'socialize', 'socializing', 'society', 'socioeconomic', 'sociology', 'sock', 'socket', 'socks', 'soda', 'sodas', 'sodium', 'sofa', 'sofas', 'soft', 'softball', 'soften', 'softener', 'softer', 'softly', 'software', 'softwares', 'soggy', 'soho', 'soil', 'soils', 'solar', 'sold', 'soldier', 'soldiers', 'sole', 'solely', 'solemn', 'solicitors', 'solid', 'solidify', 'solidifying', 'solidly', 'solitaire', 'solitude', 'solo', 'solomon', 'solution', 'solutions', 'solve', 'solved', 'solvent', 'solvents', 'solving', 'som', 'sombrero', 'somebody', 'somebrushes', 'someday', 'somehow', 'somejackets', 'someone', 'someplace', 'somesleepwear', 'something', 'sometime', 'sometimes', 'somewhat', 'somewhere', 'son', 'song', 'songbook', 'songhua', 'songs', 'songshan', 'songshuguiyu', 'sonny', 'sonry', 'sons', 'sony', 'soo', 'soon', 'sooner', 'soonest', 'soothers', 'soothing', 'sophia', 'sophie', 'sophisticated', 'sophomore', 'soprano', 'sorbets', 'sore', 'sorority', 'sorrow', 'sorrows', 'sorry', 'sort', 'sorted', 'sorts', 'soud', 'soul', 'sound', 'sounded', 'soundng', 'sounds', 'soundtrack', 'soup', 'soups', 'sour

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19 ', 'source', 'sources', 'sourdough', 'sout', 'south', 'southampton', 'southbound', 'southeast', 'southern', 'southerners', 'southwards', 'southwest', 'souvenir', 'souvenirs', 'sovereignty', 'sovia', 'sow', 'sowing', 'sox', 'soy', 'soya', 'spa', 'space', 'spacecraft', 'spaced', 'spaces', 'spaceship', 'spacious', 'spade', 'spaghetti', 'spaghetti', 'spain', 'spam', 'spamming', 'span', 'spanish', 'spanishpod', 'spank', 'spanner', 'spans', 'spare', 'spared', 'spares', 'sparing', 'spark', 'sparkle', 'sparks', 'sparrow', 'spasm', 'spatula', 'speak', 'speaker', 'speakers', 'speaking', 'speaks', 'spears', 'spec', 'special', 'specialise', 'specialist', 'specialists', 'specialties', 'speciality', 'specialization', 'specialize', 'specialized', 'specializes', 'specializing', 'specially', 'specials', 'specialties', 'specialty', 'specie', 'species', 'specific', 'specifically', 'specification', 'specifications', 'specifics', 'specified', 'specify', 'specimen', 'specious', 'specs', 'spectacle', 'spectacles', 'spectacular', 'spectator', 'spectators', 'spectrum', 'speculating', 'sped', 'speech', 'speeches', 'speechmaker', 'speed', 'speeded', 'speeding', 'speedometer', 'speedos', 'speeds', 'speedy', 'spell', 'spelled', 'spelling', 'spellings', 'spelt', 'spend', 'spending', 'spends', 'spent', 'spewing', 'spheres', 'spice', 'spices', 'spicy', 'spider', 'spiders', 'spielberg', 'spiked', 'spikes', 'spill', 'spilled', 'spilling', 'spills', 'spilt', 'spin', 'spinach', 'spinage', 'spines', 'spinning', 'spinster', 'spirit', 'spirits', 'spiritual', 'spit', 'spite', 'spitting', 'splash', 'splendid', 'splinter', 'split', 'splitting', 'spods', 'spoil', 'spoiled', 'spoiling', 'spoils', 'spoke', 'spoken', 'spokesperson', 'sponge', 'spongy', 'sponsor', 'sponsored', 'sponsoring', 'sponsors', 'sponsorship', 'spoon', 'spoonful', 'spoons', 'sport', 'sporting', 'sports', 'sportshoes', 'sportsman', 'sportsshoes', 'sportswear', 'sporty', 'spot', 'spotless', 'spotlessly', 'spotlights', 'spots', 'spotted', 'spouse', 'sprained', 'spraining', 'sprang', 'spray', 'spread', 'spreading', 'spreadsheet', 'spree', 'spring', 'springs', 'sprint', 'sprinting', 'sprints', 'sprite', 'sprouts', 'spruce', 'spun', 'spur', 'spy', 'spying', 'spyware', 'sq', 'squabble', 'squabbles', 'squabbling', 'squad', 'squanto', 'square', 'squash', 'squashed', 'squats', 'squeeze', 'squeezed', 'squeezing', 'squid', 'squids', 'squire', 'squirrel', 'squirrels', 'squished', 'squishing', 'src', 'st', 'sta', 'stab', 'stabbed', 'stabilizes', 'stable', 'stabler', 'stabs', 'stacey', 'stack', 'stacked', 'stacks', 'stacy', 'stadium'

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19 ', 'staff', 'staffed', 'stafffor', 'stage', 'stages', 'staging', 'stagnant', 'stain', 'stained', 'staining', 'stainless', 'stains', 'staircases', 'stairs', 'stake', 'stalker', 'stalking', 'stall', 'stalled', 'stallions', 'stallone', 'stalls', 'stamina', 'stamp', 'stamped', 'stamps', 'stances', 'stand', 'standard', 'standards', 'standby', 'standbys', 'standing', 'standley', 'standpoint', 'stands', 'standstill', 'stanley', 'staple', 'stapler', 'staples', 'star', 'starbucks', 'starch', 'starched', 'starcraft', 'stare', 'stared', 'staring', 'starlets', 'starring', 'starry', 'stars', 'start', 'started', 'starter', 'starters', 'starting', 'startling', 'starts', 'startup', 'starvation', 'starve', 'starving', 'state', 'stated', 'stately', 'statement', 'statements', 'stateroom', 'states', 'statesmen', 'static', 'stating', 'station', 'stationary', 'stationer', 'stationery', 'stations', 'statistics', 'stats', 'statue', 'statues', 'status', 'staunch', 'staving', 'stay', 'stayed', 'staying', 'stays', 'stcrtion', 'steadily', 'steady', 'steak', 'steakhouse', 'steaks', 'steal', 'stealing', 'steals', 'steam', 'steamed', 'steamer', 'steaming', 'steams', 'steamship', 'steel', 'steep', 'steering', 'stefan', 'stein', 'stem', 'stemmed', 'stenography', 'step', 'stepfather', 'stephanie', 'stephany', 'stephen', 'stepmother', 'stepped', 'stepping', 'steps', 'stereo', 'stereos', 'stereotype', 'stereotypes', 'sterilized', 'sterlet', 'sterling', 'stern', 'steroids', 'steve', 'stevedores', 'steven', 'stevens', 'stevenson', 'stew', 'steward', 'stewardess', 'stewart', 'stewed', 'stewing', 'stick', 'sticker', 'stickers', 'sticking', 'sticks', 'sticky', 'stiff', 'stiffed', 'stiffly', 'stigma', 'stilettos', 'still', 'stills', 'stimulate', 'stimulating', 'stimulation', 'stimulus', 'sting', 'stinger', 'stings', 'stingy', 'stink', 'stinks', 'stinky', 'stipulated', 'stipulates', 'stipulations', 'stir', 'stirred', 'stirring', 'stitches', 'stock', 'stockbreeding', 'stockbrokers', 'stocked', 'stockers', 'stockholder', 'stockholders', 'stockings', 'stocks', 'stoked', 'stole', 'stolen', 'stomach', 'stomachache', 'stomachaches', 'stomachs', 'stomium', 'stomping', 'stone', 'stoned', 'stones', 'stony', 'stood', 'stooped', 'stop', 'stoped', 'stoplight', 'stopover', 'stopped', 'stopping', 'stops', 'stopwatch', 'stopwatches', 'storage', 'store', 'stored', 'storeroom', 'stores', 'storeys', 'stories', 'storm', 'storms', 'stormy', 'story', 'storybooks', 'storyline', 'stout', 'stove', 'stowed', 'straight', 'straighten', 'straightened', 'straightforward', 'strain', 'strait', 'stranded', 'strang', 'strange', 'stranger'

19 ', 'strangers', 'strangest', 'strap', 'strapped', 'strapping', 'strappy', 'straps', 'strategic', 'strategies', 'strategy', 'straw', 'strawberries', 'strawberry', 'straws', 'stray', 'streaks', 'stream', 'streamline', 'streams', 'stree', 'street', 'streeter', 'streets', 'strength', 'strengthen', 'strengths', 'strenuous', 'strenuously', 'strep', 'stress', 'stressed', 'stresses', 'stressful', 'stressing', 'stressor', 'stretch', 'stretched', 'stretcher', 'stretches', 'stretching', 'stricken', 'strict', 'stricter', 'strictest', 'strictly', 'strides', 'strike', 'strikers', 'strikes', 'striking', 'string', 'stringent', 'strings', 'strip', 'striped', 'stripes', 'striping', 'stripper', 'strips', 'strive', 'strives', 'striving', 'stroke', 'strokes', 'stroller', 'strong', 'stronger', 'strongest', 'strongly', 'struck', 'structure', 'structured', 'structures', 'struggle', 'struggles', 'struggling', 'strut', 'stu', 'stuart', 'stub', 'stubborn', 'stubbornly', 'stubs', 'stuck', 'stud', 'studded', 'student', 'students', 'studied', 'studies', 'studio', 'studioclassroom', 'studios', 'studs', 'study', 'studying', 'studys', 'stuff', 'stuffed', 'stuffing', 'stuffs', 'stuffy', 'stumble', 'stunned', 'stunning', 'stuntman', 'stunts', 'stupendous', 'stupid', 'stupidest', 'sturdy', 'sty', 'style', 'styled', 'styles', 'styling', 'stylish', 'stylist', 'stylus', 'styte', 'su', 'sub', 'subcontractors', 'subject', 'subjective', 'subjects', 'sublet', 'subliminal', 'submission', 'submit', 'submits', 'submitted', 'submitting', 'subscribe', 'subscriber', 'subscribers', 'subscribing', 'subscription', 'subscriptions', 'subsidiaries', 'subsidiary', 'subsidies', 'substances', 'substandard', 'substantial', 'substitute', 'subtitles', 'subtle', 'subtler', 'subtract', 'suburb', 'suburban', 'suburbs', 'subway', 'succeed', 'succeeded', 'success', 'successes', 'successful', 'successfully', 'succession', 'succor', 'suck', 'sucked', 'sucker', 'suckers', 'sucking', 'sucks', 'suction', 'sudden', 'suddenly', 'sudoku', 'sue', 'sued', 'suey', 'suffer', 'suffered', 'suffering', 'sufferings', 'suffers', 'suffice', 'sufficient', 'suffocating', 'sugar', 'sugars', 'suggest', 'suggested', 'suggesting', 'suggestion', 'suggestions', 'suggests', 'sui', 'suicide', 'suit', 'suitable', 'suitcase', 'suitcases', 'suite', 'suited', 'suites', 'suits', 'sulfur', 'sullivan', 'sulphur', 'sultry', 'sum', 'summarize', 'summarized', 'summarizing', 'summary', 'summer', 'summers', 'summertime', 'sums', 'sun', 'sunbath', 'sunbathe', 'sunbathing', 'sunburn', 'sunburned', 'sunburst', 'sundae', 'sunday', 'sundays', 'sundries', 'sundry', 'sunflowers'

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19 ', 'sung', 'sunglasses', 'sunken', 'sunlight', 'sunlounger',
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19 ', 'tenth', 'teppanyaki', 'tequila', 'terabyte', 'teresa',
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19 'tyre', 'tyres', 'tzatziki', 'ucla', 'ufo', 'ufos', 'ugh', 'ugliest', 'ugliness', 'ugly', 'uh', 'uk', 'ukraine', 'ulcer', 'ulterior', 'ultimate', 'ultimately', 'ultra', 'ultraman', 'ultrasonic', 'ultraviolet', 'um', 'umbrella', 'umbrellas', 'umlaut', 'umm', 'ummmph', 'umpire', 'un', 'unable', 'unacceptable', 'unaged', 'unanimous', 'unanimously', 'unanticipated', 'unavailable', 'unavoidable', 'unaware', 'unbearable', 'unbearably', 'unbelievable', 'unbelievably', 'unborn', 'unbox', 'unbridled', 'unbutton', 'uncertain', 'uncertainty', 'unchained', 'unchanged', 'uncite', 'uncle', 'uncles', 'uncomfortable', 'uncommon', 'unconditional', 'unconstrained', 'uncooked', 'uncovered', 'under', 'underage', 'undercut', 'underdeveloped', 'underdog', 'underdone', 'underestimate', 'underestimating', 'undergo', 'undergone', 'undergraduate', 'undergraduates', 'underground', 'underlying', 'underneath', 'underpass', 'underprivileged', 'underrate', 'underside', 'understand', 'understandable', 'understanding', 'understands', 'understatement', 'understood', 'undertake', 'undertaking', 'undervalue', 'undervalues', 'underwater', 'underwear', 'underwriter', 'undesirable', 'undies', 'undiscovered', 'undisputed', 'undoubtedly', 'undue', 'uneasy', 'unemployment', 'unenthusiastic', 'unexcused', 'unexpected', 'unexpectedly', 'unfair', 'unfamiliar', 'unfashionable', 'unfilled', 'unfit', 'unfold', 'unforgeable', 'unforgettable', 'unforgivable', 'unfortunate', 'unfortunately', 'unfurnished', 'unguaranteed', 'unhappy', 'unhealthy', 'unified', 'uniform', 'uniforms', 'unimaginable', 'uninspiring', 'uninteresting', 'union', 'unionized', 'unions', 'unique', 'uniquely', 'unit', 'unite', 'united', 'units', 'unity', 'universal', 'universe', 'universities', 'university', 'unjust', 'unkindly', 'unleaded', 'unleashing', 'unless', 'unlike', 'unlikely', 'unlimited', 'unlisted', 'unload', 'unloaded', 'unloading', 'unlocked', 'unlucky', 'unmarried', 'unnatural', 'unnecessary', 'unnerving', 'unpack', 'unpacked', 'unpacking', 'unpaid', 'unplanned', 'unpleasant', 'unplug', 'unplugged', 'unpopular', 'unprecedented', 'unpredictable', 'unprofessional', 'unreadable', 'unrealistic', 'unrealistically', 'unreasonable', 'unrelated', 'unreliable', 'unripe', 'unripened', 'unsafe', 'unsatisfactory', 'unsatisfied', 'unsay', 'unscientific', 'unscrew', 'unsettling', 'unshrinkable', 'unskillful', 'unsociable', 'unsolicited', 'unstable', 'unstoppable', 'unsubstantiated', 'unsuitable', 'unsure', 'unthreatening', 'untied', 'untill', 'untouched', 'unused'

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19 wireless', 'wiring', 'wisconsin', 'wisdom', 'wise', 'wisely', 'wiser', 'wish', 'wished', 'wishes', 'wishful', 'wishing', 'wit', 'witch', 'withdraw', 'withdrawal', 'withdrawals', 'withdrawing', 'withdrawn', 'withdrew', 'wither', 'withheld', 'withholding', 'within', 'without', 'withstand', 'withstanding', 'witnessed', 'witnesses', 'wits', 'witty', 'wives', 'wiz', 'wo', 'wok', 'woke', 'woken', 'wokers', 'wold', 'wolf', 'wolves', 'woman', 'womanizer', 'wombats', 'women', 'won', 'wonder', 'wondered', 'wonderful', 'wonderfull', 'wonderfully', 'wondering', 'wonderland', 'wonders', 'wone', 'wong', 'wont', 'wonton', 'woo', 'wood', 'wooden', 'woodlawn', 'woods', 'woodwork', 'woodworking', 'woody', 'wool', 'woolen', 'wools', 'woos', 'word', 'words', 'wore', 'work', 'workable', 'workaholic', 'workbag', 'workbench', 'workday', 'worked', 'worker', 'workers', 'workflow', 'workforce', 'working', 'workings', 'workload', 'workman', 'workmanship', 'workmate', 'workmen', 'workout', 'workouts', 'workplace', 'works', 'workshop', 'workshops', 'workstations', 'worktop', 'workweek', 'worl', 'world', 'worlds', 'worldwide', 'worm', 'wormeaten', 'worms', 'worn', 'worried', 'worries', 'worry', 'worrying', 'worse', 'worship', 'worshippers', 'worst', 'wort', 'worth', 'worthiness', 'worthless', 'worthwhile', 'worthy', 'would', 'wouldn', 'wound', 'wounded', 'wounding', 'wounds', 'wounldn', 'wow', 'wowed', 'wracking', 'wrap', 'wrapped', 'wrapper', 'wrapping', 'wreaking', 'wreck', 'wrecked', 'wreckers', 'wrench', 'wrestle', 'wrestler', 'wrestlers', 'wrestling', 'wright', 'wrigley', 'wring', 'wrinkles', 'wrinkling', 'wrinkly', 'wrist', 'wristwatches', 'write', 'writer', 'writers', 'writes', 'writing', 'written', 'wrong', 'wrote', 'wto', 'wu', 'wudaokou', 'wuhan', 'wukesong', 'wushu', 'wuss', 'wwi', 'www', 'wyatt', 'wyeth', 'x2500', 'x6', 'xara', 'xavier', 'xenophobia', 'xerox', 'xeroxing', 'xi', 'xiamen', 'xiangqi', 'xiaogang', 'xiaohui', 'xiaoxiao', 'xie', 'xinghai', 'xingu', 'xinhua', 'xinjiang', 'xinu', 'xizhimen', 'xmas', 'xp', 'xu', 'xuebao', 'xx', 'xxxxxxxxxx', 'xyz', 'ya', 'yachting', 'yah', 'yahoo', 'yale', 'yam', 'yan', 'yancheng', 'yang', 'yangshao', 'yangshi', 'yangtze', 'yangzi', 'yankee', 'yankees', 'yanking', 'yao', 'yapping', 'yard', 'yards', 'yarning', 'yay', 'ye', 'yea', 'yeah', 'yean', 'year', 'yearly', 'yearn', 'yearning', 'years', 'yeas', 'yecch', 'yell', 'yelled', 'yelling', 'yellow', 'yellowish', 'yellowstone', 'yells', 'yelped', 'yen', 'yentai', 'yeoman', 'yep', 'yes', 'yesterday', 'yet', 'yeuks', 'yew', 'yi', 'yield', 'yijianlian', 'yikes', 'yingzhou', 'ymca', 'yo

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19 ', 'yoga', 'yoghurt', 'yogurt', 'yokohama', 'yolanda', 'yolk', 'yon', 'yong', 'yongmei', 'yor', 'york', 'yos', 'you', 'youknow', 'young', 'younger', 'youngest', 'youngsters', 'yourfingers', 'yourorder', 'yous', 'youse', 'youth', 'youths', 'yt', 'yuan', 'yuanmingyuan', 'yuanxiao', 'yuanyang', 'yucatan', 'yuck', 'yue', 'yummy', 'yunnan', 'yup', 'yuppie', 'yuri', 'yuu', 'yvonne', 'yw132', 'yy', 'z3264356', 'zach', 'zat', 'ze', 'zealand', 'zealander', 'zero', 'zeros', 'zeta', 'zhang', 'zhaopin', 'zheg', 'zhejiang', 'zhengjun', 'zhenjiang', 'zhilian', 'zhongguancun', 'zhongshan', 'zhouzhuang', 'zhuang', 'zhuhai', 'zhumulangma', 'zina', 'zinc', 'zip', 'zipper', 'zipping', 'zither', 'zizhuyuan', 'zn741', 'zodiac', 'zoe', 'zombie', 'zombies', 'zone', 'zones', 'zongzi', 'zoo', 'zoom', 'zoos', 'zu', 'zucchini', 'zurich', 'zw203', 'zzz']
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76 Validation
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80 Testing
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83 =====
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103      accuracy           0.83   6179
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105      weighted avg   0.77   0.83   0.75   6179
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107 =====
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defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this
behavior.
110      _warn_prf(average, modifier, msg_start, len(result))
111 C:\Users\IUT-Cmr-Thesis-CSE\Desktop\pythonProject\venv\
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114      _warn_prf(average, modifier, msg_start, len(result))
115 2021-03-02 22:51:06.013914: I tensorflow/compiler/jit/
xla_cpu_device.cc:41] Not creating XLA devices,
tf_xla_enable_xla_devices not set
116 2021-03-02 22:51:06.016517: I tensorflow/stream_executor/
platform/default/dso_loader.cc:49] Successfully opened
dynamic library nvcuda.dll
117 2021-03-02 22:51:06.075859: I tensorflow/core/
common_runtime/gpu/gpu_device.cc:1720] Found device 0
with properties:
118 pciBusID: 0000:01:00.0 name: GeForce GTX 1070
computeCapability: 6.1
119 coreClock: 1.683GHz coreCount: 15 deviceMemorySize: 8.
00GiB deviceMemoryBandwidth: 238.66GiB/s
120 2021-03-02 22:51:06.076190: I tensorflow/stream_executor/
platform/default/dso_loader.cc:49] Successfully opened

```

```
120 dynamic library cudart64_110.dll
121 2021-03-02 22:51:06.103395: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cublas64_11.dll
122 2021-03-02 22:51:06.103569: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cublasLt64_11.dll
123 2021-03-02 22:51:06.141226: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cufft64_10.dll
124 2021-03-02 22:51:06.144385: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library curand64_10.dll
125 2021-03-02 22:51:06.159569: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cusolver64_10.dll
126 2021-03-02 22:51:06.167432: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cusparse64_11.dll
127 2021-03-02 22:51:06.184661: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cudnn64_8.dll
128 2021-03-02 22:51:06.185455: I tensorflow/core/
    common_runtime/gpu/gpu_device.cc:1862] Adding visible gpu
    devices: 0
129 2021-03-02 22:51:06.186612: I tensorflow/core/platform/
    cpu_feature_guard.cc:142] This TensorFlow binary is
    optimized with oneAPI Deep Neural Network Library (oneDNN)
    to use the following CPU instructions in performance-
    critical operations: AVX2
130 To enable them in other operations, rebuild TensorFlow
    with the appropriate compiler flags.
131 2021-03-02 22:51:06.187831: I tensorflow/core/
    common_runtime/gpu/gpu_device.cc:1720] Found device 0
    with properties:
132 pciBusID: 0000:01:00.0 name: GeForce GTX 1070
    computeCapability: 6.1
133 coreClock: 1.683GHz coreCount: 15 deviceMemorySize: 8.
    00GiB deviceMemoryBandwidth: 238.66GiB/s
134 2021-03-02 22:51:06.188277: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cudart64_110.dll
135 2021-03-02 22:51:06.188927: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cublas64_11.dll
136 2021-03-02 22:51:06.189119: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
```

```

136 dynamic library cublasLt64_11.dll
137 2021-03-02 22:51:06.189391: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cufft64_10.dll
138 2021-03-02 22:51:06.189525: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library curand64_10.dll
139 2021-03-02 22:51:06.189657: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cusolver64_10.dll
140 2021-03-02 22:51:06.189790: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cusparse64_11.dll
141 2021-03-02 22:51:06.189922: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cudnn64_8.dll
142 2021-03-02 22:51:06.190088: I tensorflow/core/
    common_runtime/gpu/gpu_device.cc:1862] Adding visible gpu
    devices: 0
143 2021-03-02 22:51:07.921907: I tensorflow/core/
    common_runtime/gpu/gpu_device.cc:1261] Device
    interconnect StreamExecutor with strength 1 edge matrix:
144 2021-03-02 22:51:07.922087: I tensorflow/core/
    common_runtime/gpu/gpu_device.cc:1267]      0
145 2021-03-02 22:51:07.922197: I tensorflow/core/
    common_runtime/gpu/gpu_device.cc:1280] 0:  N
146 2021-03-02 22:51:07.923902: I tensorflow/core/
    common_runtime/gpu/gpu_device.cc:1406] Created TensorFlow
    device (/job:localhost/replica:0/task:0/device:GPU:0
    with 6301 MB memory) -> physical GPU (device: 0, name:
    GeForce GTX 1070, pci bus id: 0000:01:00.0, compute
    capability: 6.1)
147 2021-03-02 22:51:07.926630: I tensorflow/compiler/jit/
    xla_gpu_device.cc:99] Not creating XLA devices,
    tf_xla_enable_xla_devices not set
148 Model: "sequential"
149 -----
-----  

150 Layer (type)           Output Shape  

  Param #  

151 ======-----  

  ======  

152 conv1d (Conv1D)        (None, 18564, 64)  

  256  

153 -----  

  -----  

154 max_pooling1d (MaxPooling1D) (None, 9282, 64)          0

```

```
154
155 -----
156 conv1d_1 (Conv1D)           (None, 9282, 64)
20544
157 -----
158 max_pooling1d_1 (MaxPooling1 (None, 4641, 64)      0
159 -----
160 conv1d_2 (Conv1D)           (None, 4639, 64)
12352
161 -----
162 max_pooling1d_2 (MaxPooling1 (None, 2319, 64)      0
163 -----
164 flatten (Flatten)          (None, 148416)        0
165 -----
166 dense (Dense)              (None, 64)
9498688
167 -----
168 dropout (Dropout)          (None, 64)            0
169 -----
170 dense_1 (Dense)             (None, 7)
455
171 =====
=====
172 Total params: 9,532,295
173 Trainable params: 9,532,295
174 Non-trainable params: 0
175 -----
176 (87532, 18566, 1) 3
177 (9268, 18566, 1) 3
178 (6179, 18566, 1) 3
179 2021-03-02 22:52:33.461439: I tensorflow/compiler/mlir/
    mlir_graph_optimization_pass.cc:116] None of the MLIR
    optimization passes are enabled (registered 2)
180 Epoch 1/50
```

```
181 2021-03-02 22:52:35.582521: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cublas64_11.dll
182 2021-03-02 22:52:37.236462: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cublasLt64_11.dll
183 2021-03-02 22:52:37.306067: I tensorflow/stream_executor/
    platform/default/dso_loader.cc:49] Successfully opened
    dynamic library cudnn64_8.dll
184 2021-03-02 22:52:45.446224: I tensorflow/core/platform/
    windows/subprocess.cc:308] SubProcess ended with return
    code: 0
185
186 2021-03-02 22:52:45.569126: I tensorflow/core/platform/
    windows/subprocess.cc:308] SubProcess ended with return
    code: 0
187
188 2736/2736 [=====] - 224s 77ms/
    step - loss: 0.6522 - accuracy: 0.8341 - f1_m: 0.8198 -
    precision_m: 0.8387 - recall_m: 0.8046 - val_loss: 0.5248
    - val_accuracy: 0.8456 - val_f1_m: 0.8449 -
    val_precision_m: 0.8501 - val_recall_m: 0.8400
189 Epoch 2/50
190 2736/2736 [=====] - 207s 76ms/
    step - loss: 0.5623 - accuracy: 0.8402 - f1_m: 0.8395 -
    precision_m: 0.8448 - recall_m: 0.8345 - val_loss: 0.5146
    - val_accuracy: 0.8464 - val_f1_m: 0.8472 -
    val_precision_m: 0.8495 - val_recall_m: 0.8449
191 Epoch 3/50
192 2736/2736 [=====] - 206s 75ms/
    step - loss: 0.5440 - accuracy: 0.8441 - f1_m: 0.8439 -
    precision_m: 0.8463 - recall_m: 0.8416 - val_loss: 0.5148
    - val_accuracy: 0.8489 - val_f1_m: 0.8498 -
    val_precision_m: 0.8512 - val_recall_m: 0.8485
193 Epoch 4/50
194 2736/2736 [=====] - 207s 76ms/
    step - loss: 0.5483 - accuracy: 0.8434 - f1_m: 0.8434 -
    precision_m: 0.8444 - recall_m: 0.8425 - val_loss: 0.5116
    - val_accuracy: 0.8470 - val_f1_m: 0.8480 -
    val_precision_m: 0.8492 - val_recall_m: 0.8469
195 Epoch 5/50
196 2736/2736 [=====] - 207s 76ms/
    step - loss: 0.5469 - accuracy: 0.8451 - f1_m: 0.8450 -
    precision_m: 0.8458 - recall_m: 0.8443 - val_loss: 0.5094
    - val_accuracy: 0.8501 - val_f1_m: 0.8496 -
    val_precision_m: 0.8507 - val_recall_m: 0.8485
197 Epoch 6/50
```

```
198 2736/2736 [=====] - 207s 76ms/
  step - loss: 0.5868 - accuracy: 0.8424 - f1_m: 0.8424 -
  precision_m: 0.8430 - recall_m: 0.8419 - val_loss: 0.5178
  - val_accuracy: 0.8500 - val_f1_m: 0.8503 -
  val_precision_m: 0.8505 - val_recall_m: 0.8501
199 Epoch 7/50
200 2736/2736 [=====] - 207s 76ms/
  step - loss: 0.5575 - accuracy: 0.8439 - f1_m: 0.8437 -
  precision_m: 0.8442 - recall_m: 0.8433 - val_loss: 0.5123
  - val_accuracy: 0.8505 - val_f1_m: 0.8498 -
  val_precision_m: 0.8508 - val_recall_m: 0.8488
201 Epoch 8/50
202 2736/2736 [=====] - 207s 76ms/
  step - loss: 0.5472 - accuracy: 0.8450 - f1_m: 0.8449 -
  precision_m: 0.8454 - recall_m: 0.8443 - val_loss: 0.5146
  - val_accuracy: 0.8507 - val_f1_m: 0.8508 -
  val_precision_m: 0.8510 - val_recall_m: 0.8505
203 Epoch 9/50
204 2736/2736 [=====] - 207s 76ms/
  step - loss: 0.5405 - accuracy: 0.8461 - f1_m: 0.8462 -
  precision_m: 0.8468 - recall_m: 0.8456 - val_loss: 0.5184
  - val_accuracy: 0.8512 - val_f1_m: 0.8513 -
  val_precision_m: 0.8516 - val_recall_m: 0.8510
205 Epoch 10/50
206 2736/2736 [=====] - 207s 76ms/
  step - loss: 0.5525 - accuracy: 0.8439 - f1_m: 0.8440 -
  precision_m: 0.8446 - recall_m: 0.8434 - val_loss: 0.5102
  - val_accuracy: 0.8495 - val_f1_m: 0.8490 -
  val_precision_m: 0.8502 - val_recall_m: 0.8478
207 Epoch 11/50
208 2736/2736 [=====] - 208s 76ms/
  step - loss: 0.5453 - accuracy: 0.8444 - f1_m: 0.8444 -
  precision_m: 0.8449 - recall_m: 0.8438 - val_loss: 0.5112
  - val_accuracy: 0.8501 - val_f1_m: 0.8496 -
  val_precision_m: 0.8506 - val_recall_m: 0.8486
209 Epoch 12/50
210 2736/2736 [=====] - 207s 76ms/
  step - loss: 0.5482 - accuracy: 0.8467 - f1_m: 0.8467 -
  precision_m: 0.8473 - recall_m: 0.8461 - val_loss: 0.5189
  - val_accuracy: 0.8492 - val_f1_m: 0.8493 -
  val_precision_m: 0.8495 - val_recall_m: 0.8490
211 Epoch 13/50
212 2736/2736 [=====] - 208s 76ms/
  step - loss: 0.5617 - accuracy: 0.8434 - f1_m: 0.8435 -
  precision_m: 0.8442 - recall_m: 0.8428 - val_loss: 0.5166
  - val_accuracy: 0.8455 - val_f1_m: 0.8456 -
  val_precision_m: 0.8477 - val_recall_m: 0.8436
```

```
213 Epoch 14/50
214 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5544 - accuracy: 0.8431 - f1_m: 0.8430 -
    precision_m: 0.8436 - recall_m: 0.8423 - val_loss: 0.5154
    - val_accuracy: 0.8481 - val_f1_m: 0.8473 -
    val_precision_m: 0.8486 - val_recall_m: 0.8460
215 Epoch 15/50
216 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5970 - accuracy: 0.8457 - f1_m: 0.8457 -
    precision_m: 0.8463 - recall_m: 0.8450 - val_loss: 0.5280
    - val_accuracy: 0.8432 - val_f1_m: 0.8435 -
    val_precision_m: 0.8437 - val_recall_m: 0.8433
217 Epoch 16/50
218 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5755 - accuracy: 0.8428 - f1_m: 0.8427 -
    precision_m: 0.8433 - recall_m: 0.8422 - val_loss: 0.5188
    - val_accuracy: 0.8462 - val_f1_m: 0.8466 -
    val_precision_m: 0.8469 - val_recall_m: 0.8463
219 Epoch 17/50
220 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.6319 - accuracy: 0.8463 - f1_m: 0.8463 -
    precision_m: 0.8469 - recall_m: 0.8458 - val_loss: 0.5157
    - val_accuracy: 0.8492 - val_f1_m: 0.8493 -
    val_precision_m: 0.8497 - val_recall_m: 0.8489
221 Epoch 18/50
222 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.6462 - accuracy: 0.8455 - f1_m: 0.8453 -
    precision_m: 0.8459 - recall_m: 0.8448 - val_loss: 0.5262
    - val_accuracy: 0.8541 - val_f1_m: 0.8544 -
    val_precision_m: 0.8546 - val_recall_m: 0.8542
223 Epoch 19/50
224 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5773 - accuracy: 0.8438 - f1_m: 0.8437 -
    precision_m: 0.8442 - recall_m: 0.8432 - val_loss: 0.5353
    - val_accuracy: 0.8441 - val_f1_m: 0.8448 -
    val_precision_m: 0.8458 - val_recall_m: 0.8439
225 Epoch 20/50
226 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5852 - accuracy: 0.8398 - f1_m: 0.8397 -
    precision_m: 0.8402 - recall_m: 0.8392 - val_loss: 0.5194
    - val_accuracy: 0.8459 - val_f1_m: 0.8461 -
    val_precision_m: 0.8465 - val_recall_m: 0.8457
227 Epoch 21/50
228 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5797 - accuracy: 0.8426 - f1_m: 0.8424 -
    precision_m: 0.8431 - recall_m: 0.8416 - val_loss: 0.5220
    - val_accuracy: 0.8507 - val_f1_m: 0.8508 -
```

```
228 val_precision_m: 0.8511 - val_recall_m: 0.8505
229 Epoch 22/50
230 2736/2736 [=====] - 208s 76ms/
  step - loss: 0.5710 - accuracy: 0.8445 - f1_m: 0.8446 -
  precision_m: 0.8454 - recall_m: 0.8438 - val_loss: 0.5196
  - val_accuracy: 0.8469 - val_f1_m: 0.8477 -
  val_precision_m: 0.8488 - val_recall_m: 0.8467
231 Epoch 23/50
232 2736/2736 [=====] - 208s 76ms/
  step - loss: 0.5733 - accuracy: 0.8420 - f1_m: 0.8419 -
  precision_m: 0.8425 - recall_m: 0.8413 - val_loss: 0.5198
  - val_accuracy: 0.8483 - val_f1_m: 0.8478 -
  val_precision_m: 0.8490 - val_recall_m: 0.8467
233 Epoch 24/50
234 2736/2736 [=====] - 208s 76ms/
  step - loss: 0.6091 - accuracy: 0.8429 - f1_m: 0.8428 -
  precision_m: 0.8435 - recall_m: 0.8421 - val_loss: 0.5247
  - val_accuracy: 0.8476 - val_f1_m: 0.8469 -
  val_precision_m: 0.8481 - val_recall_m: 0.8458
235 Epoch 25/50
236 2736/2736 [=====] - 208s 76ms/
  step - loss: 0.5704 - accuracy: 0.8438 - f1_m: 0.8438 -
  precision_m: 0.8443 - recall_m: 0.8433 - val_loss: 0.5235
  - val_accuracy: 0.8452 - val_f1_m: 0.8460 -
  val_precision_m: 0.8471 - val_recall_m: 0.8449
237 Epoch 26/50
238 2736/2736 [=====] - 208s 76ms/
  step - loss: 0.5643 - accuracy: 0.8435 - f1_m: 0.8436 -
  precision_m: 0.8442 - recall_m: 0.8430 - val_loss: 0.5304
  - val_accuracy: 0.8471 - val_f1_m: 0.8476 -
  val_precision_m: 0.8479 - val_recall_m: 0.8473
239 Epoch 27/50
240 2736/2736 [=====] - 208s 76ms/
  step - loss: 0.5669 - accuracy: 0.8408 - f1_m: 0.8408 -
  precision_m: 0.8415 - recall_m: 0.8402 - val_loss: 0.5266
  - val_accuracy: 0.8476 - val_f1_m: 0.8483 -
  val_precision_m: 0.8494 - val_recall_m: 0.8472
241 Epoch 28/50
242 2736/2736 [=====] - 208s 76ms/
  step - loss: 0.5730 - accuracy: 0.8399 - f1_m: 0.8400 -
  precision_m: 0.8406 - recall_m: 0.8394 - val_loss: 0.5191
  - val_accuracy: 0.8492 - val_f1_m: 0.8498 -
  val_precision_m: 0.8514 - val_recall_m: 0.8483
243 Epoch 29/50
244 2736/2736 [=====] - 208s 76ms/
  step - loss: 0.5751 - accuracy: 0.8407 - f1_m: 0.8407 -
  precision_m: 0.8414 - recall_m: 0.8399 - val_loss: 0.5379
```

```
244 - val_accuracy: 0.8487 - val_f1_m: 0.8486 -
      val_precision_m: 0.8492 - val_recall_m: 0.8479
245 Epoch 30/50
246 2736/2736 [=====] - 209s 76ms/
      step - loss: 0.5633 - accuracy: 0.8410 - f1_m: 0.8411 -
      precision_m: 0.8420 - recall_m: 0.8403 - val_loss: 0.5370
      - val_accuracy: 0.8460 - val_f1_m: 0.8465 -
      val_precision_m: 0.8481 - val_recall_m: 0.8450
247 Epoch 31/50
248 2736/2736 [=====] - 208s 76ms/
      step - loss: 0.5641 - accuracy: 0.8425 - f1_m: 0.8425 -
      precision_m: 0.8432 - recall_m: 0.8418 - val_loss: 0.5261
      - val_accuracy: 0.8480 - val_f1_m: 0.8474 -
      val_precision_m: 0.8487 - val_recall_m: 0.8461
249 Epoch 32/50
250 2736/2736 [=====] - 208s 76ms/
      step - loss: 0.5518 - accuracy: 0.8411 - f1_m: 0.8413 -
      precision_m: 0.8420 - recall_m: 0.8405 - val_loss: 0.5300
      - val_accuracy: 0.8452 - val_f1_m: 0.8444 -
      val_precision_m: 0.8456 - val_recall_m: 0.8433
251 Epoch 33/50
252 2736/2736 [=====] - 208s 76ms/
      step - loss: 0.5567 - accuracy: 0.8410 - f1_m: 0.8407 -
      precision_m: 0.8415 - recall_m: 0.8400 - val_loss: 0.5253
      - val_accuracy: 0.8492 - val_f1_m: 0.8491 -
      val_precision_m: 0.8495 - val_recall_m: 0.8487
253 Epoch 34/50
254 2736/2736 [=====] - 208s 76ms/
      step - loss: 0.5784 - accuracy: 0.8397 - f1_m: 0.8396 -
      precision_m: 0.8403 - recall_m: 0.8390 - val_loss: 0.5269
      - val_accuracy: 0.8482 - val_f1_m: 0.8485 -
      val_precision_m: 0.8488 - val_recall_m: 0.8481
255 Epoch 35/50
256 2736/2736 [=====] - 208s 76ms/
      step - loss: 0.5604 - accuracy: 0.8409 - f1_m: 0.8407 -
      precision_m: 0.8415 - recall_m: 0.8400 - val_loss: 0.5441
      - val_accuracy: 0.8470 - val_f1_m: 0.8481 -
      val_precision_m: 0.8500 - val_recall_m: 0.8462
257 Epoch 36/50
258 2736/2736 [=====] - 208s 76ms/
      step - loss: 0.5680 - accuracy: 0.8418 - f1_m: 0.8419 -
      precision_m: 0.8428 - recall_m: 0.8411 - val_loss: 0.5250
      - val_accuracy: 0.8459 - val_f1_m: 0.8466 -
      val_precision_m: 0.8478 - val_recall_m: 0.8455
259 Epoch 37/50
260 2736/2736 [=====] - 208s 76ms/
      step - loss: 0.5636 - accuracy: 0.8412 - f1_m: 0.8410 -
```

```
260 precision_m: 0.8420 - recall_m: 0.8401 - val_loss: 0.5348
    - val_accuracy: 0.8481 - val_f1_m: 0.8474 -
    val_precision_m: 0.8485 - val_recall_m: 0.8463
261 Epoch 38/50
262 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5822 - accuracy: 0.8394 - f1_m: 0.8392 -
    precision_m: 0.8401 - recall_m: 0.8383 - val_loss: 0.5318
        - val_accuracy: 0.8438 - val_f1_m: 0.8446 -
        val_precision_m: 0.8456 - val_recall_m: 0.8437
263 Epoch 39/50
264 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5736 - accuracy: 0.8389 - f1_m: 0.8389 -
    precision_m: 0.8398 - recall_m: 0.8380 - val_loss: 0.5327
        - val_accuracy: 0.8468 - val_f1_m: 0.8469 -
        val_precision_m: 0.8474 - val_recall_m: 0.8464
265 Epoch 40/50
266 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5798 - accuracy: 0.8412 - f1_m: 0.8409 -
    precision_m: 0.8419 - recall_m: 0.8400 - val_loss: 0.5572
        - val_accuracy: 0.8368 - val_f1_m: 0.8373 -
        val_precision_m: 0.8387 - val_recall_m: 0.8359
267 Epoch 41/50
268 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5569 - accuracy: 0.8428 - f1_m: 0.8427 -
    precision_m: 0.8437 - recall_m: 0.8417 - val_loss: 0.5285
        - val_accuracy: 0.8462 - val_f1_m: 0.8470 -
        val_precision_m: 0.8481 - val_recall_m: 0.8459
269 Epoch 42/50
270 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.6567 - accuracy: 0.8407 - f1_m: 0.8407 -
    precision_m: 0.8418 - recall_m: 0.8396 - val_loss: 0.5371
        - val_accuracy: 0.8494 - val_f1_m: 0.8494 -
        val_precision_m: 0.8500 - val_recall_m: 0.8489
271 Epoch 43/50
272 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5939 - accuracy: 0.8427 - f1_m: 0.8429 -
    precision_m: 0.8440 - recall_m: 0.8419 - val_loss: 0.5404
        - val_accuracy: 0.8459 - val_f1_m: 0.8460 -
        val_precision_m: 0.8466 - val_recall_m: 0.8455
273 Epoch 44/50
274 2736/2736 [=====] - 208s 76ms/
    step - loss: 0.5806 - accuracy: 0.8408 - f1_m: 0.8408 -
    precision_m: 0.8418 - recall_m: 0.8397 - val_loss: 0.5320
        - val_accuracy: 0.8505 - val_f1_m: 0.8506 -
        val_precision_m: 0.8517 - val_recall_m: 0.8496
275 Epoch 45/50
276 2736/2736 [=====] - 208s 76ms/
```

```

276 step - loss: 0.5814 - accuracy: 0.8398 - f1_m: 0.8397 -
precision_m: 0.8406 - recall_m: 0.8389 - val_loss: 0.5716
- val_accuracy: 0.8481 - val_f1_m: 0.8481 -
val_precision_m: 0.8486 - val_recall_m: 0.8476
277 Epoch 46/50
278 2736/2736 [=====] - 207s 76ms/
step - loss: 0.5704 - accuracy: 0.8422 - f1_m: 0.8421 -
precision_m: 0.8430 - recall_m: 0.8413 - val_loss: 0.5414
- val_accuracy: 0.8470 - val_f1_m: 0.8472 -
val_precision_m: 0.8474 - val_recall_m: 0.8470
279 Epoch 47/50
280 2736/2736 [=====] - 207s 76ms/
step - loss: 0.6210 - accuracy: 0.8401 - f1_m: 0.8401 -
precision_m: 0.8408 - recall_m: 0.8393 - val_loss: 0.5310
- val_accuracy: 0.8483 - val_f1_m: 0.8484 -
val_precision_m: 0.8487 - val_recall_m: 0.8481
281 Epoch 48/50
282 2736/2736 [=====] - 207s 76ms/
step - loss: 0.5894 - accuracy: 0.8400 - f1_m: 0.8400 -
precision_m: 0.8408 - recall_m: 0.8392 - val_loss: 0.5305
- val_accuracy: 0.8500 - val_f1_m: 0.8486 -
val_precision_m: 0.8511 - val_recall_m: 0.8462
283 Epoch 49/50
284 2736/2736 [=====] - 207s 76ms/
step - loss: 0.7075 - accuracy: 0.8393 - f1_m: 0.8393 -
precision_m: 0.8403 - recall_m: 0.8384 - val_loss: 0.5288
- val_accuracy: 0.8489 - val_f1_m: 0.8481 -
val_precision_m: 0.8491 - val_recall_m: 0.8471
285 Epoch 50/50
286 2736/2736 [=====] - 208s 76ms/
step - loss: 0.6454 - accuracy: 0.8400 - f1_m: 0.8401 -
precision_m: 0.8410 - recall_m: 0.8392 - val_loss: 0.5319
- val_accuracy: 0.8481 - val_f1_m: 0.8488 -
val_precision_m: 0.8498 - val_recall_m: 0.8478
287 loss -> [0.5947859883308411, 0.5552732348442078, 0.
5441792607307434, 0.5517398118972778, 0.5584331750869751
, 0.5813594460487366, 0.5555421710014343, 0.
544777512550354, 0.5486566424369812, 0.561522901058197, 0
.5512425899505615, 0.5504388809204102, 0.5638659000396729
, 0.5654841065406799, 0.6190574765205383, 0.
5760189294815063, 0.5875465869903564, 0.6330747008323669
, 0.5705697536468506, 0.5805249214172363, 0.
5723664164543152, 0.602035403251648, 0.572632908821106, 0
.5859941244125366, 0.5690261721611023, 0.573378324508667
, 0.5771520733833313, 0.5696066617965698, 0.
5795168280601501, 0.5629730224609375, 0.5689008235931396
, 0.554591715335846, 0.5579696893692017, 0.

```

```

287 5870360732078552, 0.557986855506897, 0.5653018951416016,
    0.5691927671432495, 0.5777600407600403, 0.567101240158081
    , 0.5743224024772644, 0.5640955567359924, 0.
    6109267473220825, 0.666280210018158, 0.5838474631309509,
    0.6028939485549927, 0.5737829804420471, 0.
    6323087215423584, 0.5966355204582214, 0.6544111371040344
    , 0.6145794987678528]
288 accuracy -> [0.8393158912658691, 0.8429145812988281, 0.
    8438399434089661, 0.8439199328422546, 0.8437257409095764
    , 0.8439542055130005, 0.8441826701164246, 0.
    8454736471176147, 0.8445025682449341, 0.8443997502326965
    , 0.844296932220459, 0.844296932220459, 0.
    8434172868728638, 0.8440227508544922, 0.8440455794334412
    , 0.8432801961898804, 0.8441483974456787, 0.
    8439427614212036, 0.8438513875007629, 0.8434629440307617
    , 0.843371570110321, 0.8435201048851013, 0.
    8428117632865906, 0.8432344794273376, 0.8438056707382202
    , 0.8401156067848206, 0.8405954241752625, 0.
    8409610390663147, 0.8421377539634705, 0.8402984142303467
    , 0.8409038782119751, 0.8412923216819763, 0.
    8413151502609253, 0.8407554030418396, 0.8412352204322815
    , 0.8410981297492981, 0.8410981297492981, 0.
    8410981297492981, 0.8410981297492981, 0.840938150882721,
    0.8416922092437744, 0.8407325148582458, 0.
    8405840396881104, 0.8404355049133301, 0.839544415473938,
    0.8406639695167542, 0.8399442434310913, 0.
    8394301533699036, 0.8399099707603455, 0.8402069807052612]
289 f1_m -> [0.8341988921165466, 0.8425598740577698, 0.
    8436134457588196, 0.8438724279403687, 0.8436223864555359
    , 0.8439463376998901, 0.8440929055213928, 0.
    8453018665313721, 0.8445351719856262, 0.8443195819854736
    , 0.8443616628646851, 0.8443310856819153, 0.
    8434198498725891, 0.8439304232597351, 0.8439235687255859
    , 0.8432067632675171, 0.8441483974456787, 0.
    8438041806221008, 0.8437049984931946, 0.8433913588523865
    , 0.843222439289093, 0.8436436057090759, 0.
    8427339196205139, 0.8432278037071228, 0.8436945676803589
    , 0.8401216864585876, 0.8405740261077881, 0.
    8408124446868896, 0.8420340418815613, 0.8403313159942627
    , 0.8408303260803223, 0.8413658142089844, 0.
    8412206768989563, 0.8407900333404541, 0.8411504626274109
    , 0.8411195278167725, 0.8409814834594727, 0.
    8409669995307922, 0.8410465121269226, 0.8408049941062927
    , 0.8416372537612915, 0.8405722379684448, 0.
    8406485319137573, 0.8404468894004822, 0.8394384384155273
    , 0.8406519293785095, 0.8398021459579468, 0.
    8394673466682434, 0.8398424386978149, 0.8402618765830994]

```

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290 precision_m -> [0.8453710675239563, 0.8469896912574768, 0
.8457089066505432, 0.8447928428649902, 0.8443076014518738
, 0.8444937467575073, 0.8446574807167053, 0.
845939040184021, 0.8451686501502991, 0.8448522090911865,
0.8449445366859436, 0.8448940515518188, 0.
8441072106361389, 0.8445831537246704, 0.8445623517036438
, 0.8438119292259216, 0.8446770310401917, 0.
8443302512168884, 0.8442791700363159, 0.8439792990684509
, 0.8437985181808472, 0.8443228602409363, 0.
8433733582496643, 0.8439390063285828, 0.8442524671554565
, 0.840721607208252, 0.841123104095459, 0.
8414767980575562, 0.8429035544395447, 0.8411644697189331
, 0.8415712118148804, 0.842223584651947, 0.
8419871926307678, 0.8414450287818909, 0.8420196771621704
, 0.8419401049613953, 0.8419654369354248, 0.
8418002724647522, 0.8420063853263855, 0.8417092561721802
, 0.8425975441932678, 0.8416709899902344, 0.
8415617346763611, 0.8415648937225342, 0.840366542339325,
0.8415164947509766, 0.8406185507774353, 0.
8403053283691406, 0.8408092260360718, 0.8412123322486877]
291 recall_m -> [0.8242758512496948, 0.8383132219314575, 0.
8415874242782593, 0.8429809212684631, 0.8429580330848694
, 0.8434149026870728, 0.8435444235801697, 0.
8446827530860901, 0.8439213037490845, 0.8438032865524292
, 0.8437957167625427, 0.8437842726707458, 0.
8427524566650391, 0.8432969450950623, 0.8433045744895935
, 0.8426192402839661, 0.8436357975006104, 0.
8432931303977966, 0.8431484699249268, 0.8428210020065308
, 0.8426649570465088, 0.8429847359657288, 0.
8421128392219543, 0.8425393104553223, 0.8431522250175476
, 0.8395391702651978, 0.8400417566299438, 0.
8401674032211304, 0.8411915302276611, 0.8395239114761353
, 0.8401103019714355, 0.8405328989028931, 0.
8404757976531982, 0.8401559591293335, 0.8403081893920898
, 0.8403234481811523, 0.8400264978408813, 0.
8401597142219543, 0.8401140570640564, 0.8399275541305542
, 0.8407079577445984, 0.8395086526870728, 0.
8397638201713562, 0.8393640518188477, 0.8385378122329712
, 0.8398132920265198, 0.8390099406242371, 0.
8386558890342712, 0.8389071822166443, 0.8393411636352539]
292 val_loss -> [0.5247825980186462, 0.5145922303199768, 0.
5147927403450012, 0.5116305351257324, 0.5093687772750854
, 0.517780065536499, 0.5123478174209595, 0.
5145531296730042, 0.5184217691421509, 0.5101652145385742
, 0.5111935138702393, 0.5189488530158997, 0.
5166457891464233, 0.5153889060020447, 0.5279967784881592
, 0.5188493132591248, 0.5157053470611572, 0.

```

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292 5262218713760376, 0.5353167057037354, 0.5193963646888733
    , 0.521953821182251, 0.5196098685264587, 0.
    5198135375976562, 0.5247402787208557, 0.5234516859054565
    , 0.5304197669029236, 0.5265865921974182, 0.
    5191172361373901, 0.537859320640564, 0.5369744896888733,
    0.5261013507843018, 0.5299646854400635, 0.
    5253337621688843, 0.5268961191177368, 0.544100821018219,
    0.5249897837638855, 0.5348308682441711, 0.
    5317963361740112, 0.5326530337333679, 0.5571622848510742
    , 0.5285123586654663, 0.5370615720748901, 0.
    5403989553451538, 0.5320302844047546, 0.571552038192749,
    0.5413878560066223, 0.5310173630714417, 0.
    5305429697036743, 0.5287643671035767, 0.5318878293037415]
293 val_accuracy -> [0.8455977439880371, 0.8463530540466309,
    0.8489425778388977, 0.8470004200935364, 0.
    8501294851303101, 0.8500216007232666, 0.8504531979560852
    , 0.8506689667701721, 0.8512084484100342, 0.
    8494820594787598, 0.8501294851303101, 0.8491584062576294
    , 0.8454898595809937, 0.8480793833732605, 0.
    8432239890098572, 0.8462451696395874, 0.8491584062576294
    , 0.8541216850280762, 0.8440871834754944, 0.
    8459214568138123, 0.8506689667701721, 0.8468925356864929
    , 0.8482952117919922, 0.8476478457450867, 0.
    8451661467552185, 0.8471083045005798, 0.8476478457450867
    , 0.8491584062576294, 0.8487268090248108, 0.
    8460293412208557, 0.847971498966217, 0.8451661467552185,
    0.8491584062576294, 0.8481873273849487, 0.
    8470004200935364, 0.8459214568138123, 0.8480793833732605
    , 0.8437634706497192, 0.8467846512794495, 0.
    8367500901222229, 0.8462451696395874, 0.8493741750717163
    , 0.8459214568138123, 0.8504531979560852, 0.
    8480793833732605, 0.8470004200935364, 0.8482952117919922
    , 0.8500216007232666, 0.8489425778388977, 0.
    8480793833732605]
294 val_f1_m -> [0.8449318408966064, 0.8471678495407104, 0.
    8498064875602722, 0.848024308681488, 0.8495909571647644,
    0.8502992987632751, 0.8498115539550781, 0.
    8507611751556396, 0.8512964844703674, 0.8489939570426941
    , 0.849604606628418, 0.8492559194564819, 0.
    8456279635429382, 0.8472970724105835, 0.8435070514678955
    , 0.8466149568557739, 0.8492884039878845, 0.
    854392409324646, 0.844806969165802, 0.8460983633995056, 0
    .850810706615448, 0.8477161526679993, 0.8477983474731445
    , 0.8469330072402954, 0.8460173606872559, 0.
    8475779294967651, 0.8482978343963623, 0.8498170375823975
    , 0.8485562801361084, 0.8464933037757874, 0.
    8473796844482422, 0.8444310426712036, 0.8491433262825012

```

```

294 , 0.8484557867050171, 0.8480706810951233, 0.
8465865254402161, 0.8473987579345703, 0.8446345329284668
, 0.8469268679618835, 0.8373045921325684, 0.
8469932675361633, 0.8494104146957397, 0.845998227596283,
0.8506245613098145, 0.8480729460716248, 0.
8472122550010681, 0.8484163880348206, 0.8485619425773621
, 0.8480694890022278, 0.8487753868103027]
295 val_precision_m -> [0.8501067757606506, 0.
8494846224784851, 0.851167619228363, 0.8492110967636108,
0.8507295846939087, 0.8504971265792847, 0.
8508440852165222, 0.8509907126426697, 0.8516338467597961
, 0.8501836061477661, 0.850645899772644, 0.
8494890928268433, 0.8476926684379578, 0.848629355430603,
0.8437013626098633, 0.8469028472900391, 0.84966641664505
, 0.8545884490013123, 0.8457871079444885, 0.
8465205430984497, 0.8510915637016296, 0.8488135933876038
, 0.8489774465560913, 0.848064124584198, 0.
8471407294273376, 0.8478588461875916, 0.8494362831115723
, 0.8513669967651367, 0.849249541759491, 0.
8480639457702637, 0.8487496376037598, 0.8456047177314758
, 0.8495495319366455, 0.8488195538520813, 0.
8500428199768066, 0.8477573990821838, 0.8485212922096252
, 0.8456146717071533, 0.8474478721618652, 0.
8387364149093628, 0.8480722904205322, 0.8499826788902283
, 0.8465614914894104, 0.8516700863838196, 0.
8485532402992249, 0.8474047780036926, 0.8487396836280823
, 0.8510528802871704, 0.8491025567054749, 0.
8498063087463379]
296 val_recall_m -> [0.8399568796157837, 0.8449353575706482,
0.848491370677948, 0.846875011920929, 0.848491370677948,
0.850107729434967, 0.8488146662712097, 0.8505387902259827
, 0.8509698510169983, 0.8478448390960693, 0.
8485991358757019, 0.8490301966667175, 0.8436422348022461
, 0.8460129499435425, 0.8433189392089844, 0.
8463361859321594, 0.8489224314689636, 0.8542025685310364
, 0.8438577651977539, 0.8456896543502808, 0.
8505387902259827, 0.8466594815254211, 0.8466594815254211
, 0.8458405137062073, 0.8449353575706482, 0.
8473060131072998, 0.8471982479095459, 0.8483189344406128
, 0.8478879332542419, 0.8449784517288208, 0.
8460560441017151, 0.8432974219322205, 0.8487499952316284
, 0.8481034636497498, 0.846163809299469, 0.
8454525470733643, 0.8463146090507507, 0.8436853289604187
, 0.8464223742485046, 0.8359267115592957, 0.
8459482789039612, 0.8488577604293823, 0.8454525470733643
, 0.8496120572090149, 0.8476077318191528, 0.
8470258712768555, 0.8481034636497498, 0.846163809299469,

```

```

296 0.8470689654350281, 0.847780168056488]
297 Evaluation Metrics -> [0.5562044382095337, 0.
8446350693702698, 0.8455716371536255, 0.8464627861976624
, 0.844716489315033]
298 [[5058 0 0 0 0 59 0]
299 [ 60 0 0 0 0 0 0]
300 [ 69 0 0 0 0 0 0]
301 [ 9 0 0 0 0 0 0]
302 [ 108 0 0 0 0 2 0]
303 [ 627 0 0 0 0 161 0]
304 [ 26 0 0 0 0 0 0]]
305 C:\Users\IUT-Cmr-Thesis-CSE\Desktop\pythonProject\venv\
lib\site-packages\sklearn\metrics\_classification.py:1245
: UndefinedMetricWarning: Precision and F-score are ill-
defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this
behavior.
306 _warn_prf(average, modifier, msg_start, len(result))
307 C:\Users\IUT-Cmr-Thesis-CSE\Desktop\pythonProject\venv\
lib\site-packages\sklearn\metrics\_classification.py:1245
: UndefinedMetricWarning: Precision and F-score are ill-
defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this
behavior.
308 _warn_prf(average, modifier, msg_start, len(result))
309 C:\Users\IUT-Cmr-Thesis-CSE\Desktop\pythonProject\venv\
lib\site-packages\sklearn\metrics\_classification.py:1245
: UndefinedMetricWarning: Precision and F-score are ill-
defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this
behavior.
310 _warn_prf(average, modifier, msg_start, len(result))
311 precision recall f1-score support
312
313 0 0.85 0.99 0.91 5117
314 1 0.00 0.00 0.00 60
315 2 0.00 0.00 0.00 69
316 3 0.00 0.00 0.00 9
317 4 0.00 0.00 0.00 110
318 5 0.73 0.20 0.32 788
319 6 0.00 0.00 0.00 26
320
321 accuracy 0.84 6179
322 macro avg 0.22 0.17 0.18 6179
323 weighted avg 0.80 0.84 0.80 6179
324
325

```

```
326
327 Predicted Values
328 [[8.71968687e-01 1.25817293e-02 1.26521438e-02 ... 1.
    78439897e-02
329 8.08531418e-02 3.24533810e-03]
330 [4.32804048e-01 2.44904513e-04 1.13117276e-04 ... 8.
    46505538e-03
331 5.58368206e-01 4.44292573e-06]
332 [8.36066484e-01 6.69725006e-03 5.37765678e-03 ... 1.
    65684056e-02
333 1.33686692e-01 1.33338210e-03]
334 ...
335 [8.51779819e-01 7.78907584e-03 6.20674808e-03 ... 1.
    22154914e-02
336 1.20149352e-01 1.52334885e-03]
337 [8.72653246e-01 1.38346944e-02 1.36133917e-02 ... 1.
    91666484e-02
338 7.56598264e-02 3.95143125e-03]
339 [8.56201530e-01 8.77861306e-03 7.20809633e-03 ... 1.
    43288411e-02
340 1.11049831e-01 1.97462388e-03]]
341 dict_keys(['loss', 'accuracy', 'f1_m', 'precision_m', 'recall_m', 'val_loss', 'val_accuracy', 'val_f1_m', 'val_precision_m', 'val_recall_m'])
342
343 Process finished with exit code 0
344
```