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[13] <https://cdn0.vox-cdn.com/thumbor/0_0gAXUOI5KpDxp3ksaCfqhgI8g=/800x0/filters:no_upscale()/cdn0.vox-cdn.com/uploads/chorus_asset/file/4208015/DSC_4261.0.JPG>

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{'a': 0, 'c': 2, 'b': 1, 'e': 4, 'd': 3, 'g': 6, 'f': 5, 'i': 8, 'h': 7, 'k': 10, 'j': 9, 'm': 12, 'l': 11, 'o': 14, 'n': 13, 'q': 16, 'p': 15, 's': 18, 'r': 17, 'u': 20, 't': 19, 'w': 22, 'v': 21, 'y': 24, 'x': 23, 'z': 25}

headings are ['LAYER', 'LETTER', 'LL', 'LR', 'LM', 'LI', 'RI', 'RM', 'RR', 'RL', 'Total\_Occurances']

matrix created [[0, 'q', 0.0, 11.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 11.0], [0, 'w', 0.0, 12.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 12.0], [0, 'e', 0.0, 0.0, 33.0, 0.0, 0.0, 0.0, 0.0, 0.0, 33.0], [0, 'r', 0.0, 0.0, 1.0, 19.0, 0.0, 0.0, 0.0, 0.0, 20.0], [0, 't', 0.0, 0.0, 0.0, 22.0, 0.0, 0.0, 0.0, 0.0, 22.0], [0, 'y', 0.0, 0.0, 0.0, 0.0, 14.0, 0.0, 0.0, 0.0, 14.0], [0, 'u', 0.0, 0.0, 0.0, 0.0, 11.0, 5.0, 0.0, 0.0, 16.0], [0, 'i', 0.0, 0.0, 0.0, 0.0, 1.0, 29.0, 0.0, 0.0, 30.0], [0, 'o', 0.0, 0.0, 0.0, 0.0, 0.0, 10.0, 25.0, 0.0, 35.0], [0, 'p', 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 14.0, 0.0, 14.0], [1, 'a', 28.0, 6.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 34.0], [1, 's', 0.0, 25.0, 0.0, 0.0, 0.0, 0.0, 1.0, 0.0, 26.0], [1, 'd', 0.0, 0.0, 11.0, 1.0, 0.0, 0.0, 0.0, 0.0, 12.0], [1, 'f', 0.0, 0.0, 0.0, 9.0, 0.0, 0.0, 0.0, 0.0, 9.0], [1, 'g', 0.0, 0.0, 0.0, 11.0, 0.0, 0.0, 0.0, 0.0, 11.0], [1, 'h', 0.0, 0.0, 0.0, 0.0, 16.0, 0.0, 0.0, 0.0, 16.0], [1, 'j', 0.0, 0.0, 0.0, 0.0, 18.0, 0.0, 0.0, 0.0, 18.0], [1, 'k', 0.0, 1.0, 0.0, 0.0, 0.0, 8.0, 1.0, 0.0, 10.0], [1, 'l', 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 15.0, 0.0, 15.0], [2, 'z', 5.0, 6.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 11.0], [2, 'x', 0.0, 9.0, 2.0, 0.0, 0.0, 0.0, 0.0, 0.0, 11.0], [2, 'c', 0.0, 0.0, 4.0, 12.0, 0.0, 0.0, 0.0, 0.0, 16.0], [2, 'v', 0.0, 0.0, 0.0, 9.0, 0.0, 0.0, 0.0, 0.0, 9.0], [2, 'b', 0.0, 0.0, 0.0, 0.0, 11.0, 0.0, 0.0, 0.0, 11.0], [2, 'n', 0.0, 0.0, 0.0, 0.0, 24.0, 1.0, 0.0, 0.0, 25.0], [2, 'm', 0.0, 0.0, 0.0, 0.0, 0.0, 15.0, 0.0, 0.0, 15.0]]

Layer 1: [('2000', '0'), ('554', '540'), ('636', '619'), ('264', '259'), ('583', '548'), ('318', '285'), ('-41', '-58'), ('2000', '0')]

Layer 2: [('592', '551'), ('608', '597'), ('758', '713'), ('435', '415'), ('765', '740'), ('465', '376'), ('-1', '-25'), ('2000', '0')]

layer 3: [('833', '743'), ('697', '680'), ('760', '735'), ('452', '430'), ('856', '777'), ('324', '259'), ('2000', '0'), ('2000', '0')]

[[9.0, 122.0, 312.0, 221.0, 7.0, 37.0, 136.0, 19.0, 207.0, 2.0, 49.0, 618.0, 196.0, 682.0, 5.0, 152.0, 8.0, 643.0, 282.0, 752.0, 79.0, 67.0, 29.0, 14.0, 90.0, 18.0], [144.0, 13.0, 6.0, 2.0, 153.0, 0.0, 0.0, 1.0, 118.0, 8.0, 0.0, 144.0, 9.0, 3.0, 110.0, 1.0, 0.0, 109.0, 40.0, 6.0, 88.0, 2.0, 1.0, 0.0, 14.0, 1.0], [343.0, 0.0, 60.0, 5.0, 377.0, 0.0, 0.0, 301.0, 184.0, 0.0, 134.0, 120.0, 1.0, 2.0, 551.0, 0.0, 4.0, 121.0, 35.0, 301.0, 106.0, 1.0, 0.0, 0.0, 34.0, 1.0], [131.0, 5.0, 7.0, 30.0, 468.0, 3.0, 25.0, 4.0, 342.0, 8.0, 0.0, 29.0, 14.0, 7.0, 97.0, 2.0, 1.0, 66.0, 104.0, 3.0, 77.0, 27.0, 11.0, 0.0, 31.0, 0.0], [349.0, 48.0, 312.0, 669.0, 153.0, 87.0, 85.0, 17.0, 42.0, 4.0, 14.0, 359.0, 212.0, 811.0, 28.0, 117.0, 34.0, 1100.0, 925.0, 267.0, 26.0, 114.0, 69.0, 162.0, 42.0, 3.0], [93.0, 0.0, 0.0, 0.0, 115.0, 75.0, 1.0, 1.0, 186.0, 0.0, 0.0, 55.0, 0.0, 0.0, 116.0, 0.0, 0.0, 59.0, 6.0, 27.0, 55.0, 0.0, 0.0, 0.0, 10.0, 0.0], [110.0, 3.0, 0.0, 1.0, 261.0, 2.0, 20.0, 103.0, 97.0, 0.0, 1.0, 28.0, 5.0, 49.0, 56.0, 1.0, 0.0, 122.0, 53.0, 13.0, 62.0, 0.0, 0.0, 0.0, 22.0, 0.0], [226.0, 3.0, 1.0, 3.0, 285.0, 0.0, 0.0, 0.0, 181.0, 0.0, 0.0, 14.0, 10.0, 16.0, 215.0, 3.0, 1.0, 40.0, 12.0, 68.0, 45.0, 1.0, 4.0, 0.0, 28.0, 0.0], [253.0, 85.0, 439.0, 158.0, 273.0, 90.0, 155.0, 1.0, 7.0, 6.0, 22.0, 246.0, 147.0, 1294.0, 591.0, 92.0, 8.0, 158.0, 418.0, 431.0, 19.0, 182.0, 1.0, 18.0, 0.0, 47.0], [24.0, 0.0, 1.0, 0.0, 35.0, 0.0, 0.0, 0.0, 6.0, 0.0, 0.0, 0.0, 0.0, 0.0, 32.0, 0.0, 0.0, 0.0, 0.0, 0.0, 33.0, 0.0, 0.0, 0.0, 0.0, 0.0], [20.0, 6.0, 0.0, 1.0, 139.0, 4.0, 2.0, 2.0, 89.0, 2.0, 0.0, 11.0, 3.0, 19.0, 11.0, 2.0, 0.0, 4.0, 63.0, 3.0, 4.0, 0.0, 0.0, 0.0, 9.0, 0.0], [353.0, 11.0, 11.0, 75.0, 545.0, 16.0, 8.0, 1.0, 445.0, 0.0, 15.0, 288.0, 13.0, 6.0, 266.0, 14.0, 0.0, 3.0, 100.0, 80.0, 88.0, 23.0, 3.0, 0.0, 212.0, 0.0], [320.0, 59.0, 3.0, 1.0, 410.0, 3.0, 1.0, 0.0, 236.0, 0.0, 0.0, 3.0, 66.0, 6.0, 185.0, 174.0, 0.0, 1.0, 52.0, 2.0, 43.0, 0.0, 1.0, 0.0, 19.0, 0.0], [259.0, 5.0, 250.0, 347.0, 397.0, 44.0, 688.0, 8.0, 262.0, 10.0, 43.0, 23.0, 13.0, 90.0, 123.0, 3.0, 5.0, 7.0, 436.0, 646.0, 54.0, 52.0, 5.0, 1.0, 41.0, 3.0], [53.0, 56.0, 113.0, 100.0, 12.0, 40.0, 84.0, 10.0, 38.0, 6.0, 54.0, 254.0, 258.0, 1041.0, 133.0, 134.0, 0.0, 591.0, 156.0, 175.0, 262.0, 94.0, 120.0, 19.0, 29.0, 8.0], [230.0, 2.0, 2.0, 6.0, 286.0, 1.0, 3.0, 88.0, 105.0, 0.0, 1.0, 170.0, 7.0, 1.0, 215.0, 92.0, 0.0, 300.0, 53.0, 83.0, 64.0, 0.0, 0.0, 0.0, 11.0, 1.0], [1.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.0, 0.0, 0.0, 2.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.0, 0.0, 97.0, 0.0, 0.0, 0.0, 0.0, 0.0], [560.0, 31.0, 78.0, 126.0, 960.0, 22.0, 70.0, 6.0, 540.0, 0.0, 57.0, 48.0, 101.0, 89.0, 390.0, 30.0, 1.0, 112.0, 315.0, 223.0, 87.0, 50.0, 11.0, 0.0, 147.0, 1.0], [121.0, 11.0, 133.0, 9.0, 445.0, 11.0, 4.0, 189.0, 342.0, 0.0, 32.0, 44.0, 33.0, 9.0, 172.0, 149.0, 6.0, 5.0, 249.0, 624.0, 200.0, 1.0, 25.0, 0.0, 32.0, 0.0], [366.0, 8.0, 34.0, 3.0, 773.0, 4.0, 3.0, 249.0, 976.0, 0.0, 1.0, 68.0, 25.0, 12.0, 293.0, 6.0, 0.0, 342.0, 259.0, 118.0, 161.0, 2.0, 17.0, 1.0, 131.0, 1.0], [98.0, 65.0, 83.0, 49.0, 85.0, 15.0, 57.0, 0.0, 77.0, 1.0, 5.0, 134.0, 105.0, 215.0, 6.0, 66.0, 2.0, 292.0, 202.0, 175.0, 1.0, 2.0, 1.0, 4.0, 7.0, 5.0], [108.0, 1.0, 0.0, 2.0, 409.0, 0.0, 1.0, 1.0, 193.0, 0.0, 0.0, 0.0, 0.0, 0.0, 51.0, 0.0, 0.0, 1.0, 3.0, 0.0, 2.0, 0.0, 0.0, 0.0, 2.0, 0.0], [117.0, 3.0, 2.0, 2.0, 101.0, 3.0, 0.0, 30.0, 98.0, 0.0, 0.0, 8.0, 1.0, 26.0, 56.0, 2.0, 0.0, 16.0, 27.0, 4.0, 0.0, 0.0, 2.0, 0.0, 3.0, 0.0], [17.0, 1.0, 24.0, 0.0, 23.0, 1.0, 0.0, 6.0, 21.0, 0.0, 0.0, 0.0, 2.0, 0.0, 1.0, 51.0, 0.0, 0.0, 0.0, 30.0, 8.0, 0.0, 0.0, 0.0, 3.0, 0.0], [13.0, 9.0, 13.0, 8.0, 43.0, 0.0, 2.0, 1.0, 24.0, 0.0, 0.0, 16.0, 22.0, 13.0, 22.0, 15.0, 0.0, 9.0, 41.0, 8.0, 4.0, 0.0, 7.0, 0.0, 0.0, 3.0], [21.0, 1.0, 0.0, 2.0, 43.0, 0.0, 0.0, 0.0, 13.0, 0.0, 0.0, 2.0, 0.0, 0.0, 11.0, 0.0, 0.0, 1.0, 1.0, 0.0, 3.0, 0.0, 0.0, 0.0, 3.0, 6.0]]

-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

M RI // Input layer, Finger

Finger Record : ['RI'] // Finger record for future purpose

Probability set : [('j', 18.0), ('h', 16.0)] // Possible charater by Right Index finger in Middle Layer

Current buffer : ['j']

All possible combinations : ['j', 'h'] //Possible combinations by given sets

Validated combinations : ['j', 'h'] // Valid Combinations only

['just', 'joy', 'justice', 'judgment', 'jest', 'join', 'judge', 'jewel', 'journey', 'jealous', 'jealousy', 'juice', 'joyful', 'justly', 'joys', 'jewels', 'joint', 'jug', 'je', 'jot', 'jump', 'joints', 'joined', 'jumped', 'jests', 'judgement', 'journal', 'justified', 'jaws', 'jade', 'jolly', 'judgments', 'jet', 'job', 'jerkin', 'jades', 'jar', 'jack', 'jealousies', 'judges', 'jars', 'justify', 'justices', 'jumping', 'jester', 'jocund', 'joke', 'jig', 'juvenal', 'judg', 'joining', 'jesting', 'jagged', 'jollity', 'j', 'joiner', 'jumps', 'jovial', 'juggling', 'jointure', 'john', 'jay', 'jacks', 'jelly', 'judicious', 'junior', 'jointly', 'jarring', 'joyous', 'jail', 'judged', 'juicy', 'judging', 'jury', 'jaded', 'jour', 'juniper', 'jobs', 'jenny', 'journeys', 'joyfully', 'jurisdiction', 'juices', 'jarred', 'jog', 'juggler', 'justicer', 'jordan', 'jointed', 'johns', 'jackets', 'jaw', 'joyless', 'jackals', 'jogged', 'junction', 'justification', 'juggle', 'joins', 'junkets', 'journeying', 'journeymen', 'jewelry', 'jowl', 'journalists', 'jingling', 'judgest', 'jewish', 'jets', 'jamb', 'jutting', 'jetties', 'justle', 'jangling', 'jutty', 'jeweller', 'jauncing', 'jerkins', 'jawbone', 'june', 'junk', 'justling', 'jugglers', 'jogging', 'journalist', 'journalism', 'janet', 'jonathan', 'jostlin', 'jerusalem', 'jason', 'jeering', 'jigging', 'jones', 'japanese', 'jointress', 'jacet', 'james', 'juttings', 'joyously', 'joyce', 'jowls', 'joltheads', 'jackslave', 'joseph', 'justled', 'justles', 'jills', 'july', 'java', 'jeer', 'jeep', 'journeyman', 'judy', 'jolt', 'jennifer', 'joinder', 'jpeg', 'julia', 'julie', 'jaundies', 'jessica', 'justs', 'joost', 'jane', 'jommlin', 'jackie', 'jake', 'jeffrey', 'jackson', 'johnson', 'journals', 'jotting', 'justest', 'jeff', 'jurymen', 'jewelled', 'jerks', 'january', 'jvc', 'juiced', 'jouped', 'japan', 'jacob', 'justicers', 'jesse', 'juan', 'ja', 'javascript', 'jocking', 'jellies', 'joel', 'jure', 'jeopardy', 'jungle', 'jesses', 'jangled', 'jefferson', 'jut', 'jul', 'jun', 'ject', 'josh', 'jubilant', 'juggled', 'jurement', 'jelsoft', 'joan', 'jerking', 'jc', 'jj', 'js', 'jd', 'jo', 'jm', 'jr', 'jp', 'jested', 'jakes', 'jersey', 'jiffy', 'justness', 'jan', 'jurors', 'jerry', 'jays', 'jews', 'jesus', 'joyed', 'judicial', 'jazz', 'juvenile', 'jeremy', 'jon', 'joe', 'juror', 'joinings', 'jacksonville', 'jumpeth', 'jewellery', 'jokes', 'jean', 'justin', 'johnny', 'joinin', 'jacket', 'jackanapes', 'jaundice', 'jpg', 'joshua', 'jimmy', 'jim', 'julian', 'jill', 'jamie', 'jointing', 'jesters', 'jeans', 'jose', 'jamaica', 'jugular', 'jaunce', 'jam', 'jurist', 'johnston', 'joineth', 'jaguar', 'jugs', 'his', 'he', 'have', 'him', 'her', 'had', 'here', 'hath', 'heart', 'how', 'hand', 'hear', 'has', 'house', 'head', 'himself', 'honour', 'heaven', 'hast', 'home', 'hands', 'hope', 'heard', 'husband', 'hold', 'help', 'hour', 'hence', 'half', 'high', 'hither', 'honest', 'horse', 'heavy', 'hard', 'happy', 'having', 'hot', 'herself', 'hearts', 'holy', 'hell', 'hours', 'hang', 'hate', 'however', 'held', 'ho', 'hair', 'haste', 'hundred', 'heavens', 'heat', 'horses', 'ha', 'harm', 'heads', 'hide', 'health', 'heir', 'hurt', 'honourable', 'humour', 'hearing', 'honesty', 'humble', 'hadst', 'holds', 'heels', 'happiness', 'hardly', 'hers', 'host', 'hollow', 'hopes', 'habit', 'hall', 'honours', 'hit', 'houses', 'heavenly', 'heed', 'human', 'hill', 'humbly', 'hat', 'hid', 'height', 'hung', 'hereafter', 'horns', 'honey', 'honor', 'holding', 'horn', 'horror', 'horrible', 'hanging', 'happened', 'hunt', 'hark', 'higher', 'hearted', 'hazard', 'history', 'harbour', 'http', 'hole', 'hateful', 'hungry', 'huge', 'heartily', 'handkerchief', 'hangs', 'highly', 'hairs', 'harsh', 'howling', 'hail', 'household', 'heavily', 'horrid', 'handed', 'hears', 'hated', 'humours', 'handle', 'herald', 'hostess', 'hue', 'hills', 'henceforth', 'hush', 'happen', 'heap', 'haply', 'husbands', 'hidden', 'hitherto', 'hie', 'hind', 'hedge', 'happily', 'handsome', 'highest', 'hap', 'harmless', 'harvest', 'hearty', 'hideous', 'hunger', 'helm', 'hunting', 'heavier', 'hose', 'hurried', 'hasty', 'howl', 'heirs', 'haunt', 'hounds', 'hourly', 'hatred', 'headed', 'hare', 'herein', 'hearth', 'heel', 'homely', 'holder', 'holiday', 'hack', 'harmony', 'hinder', 'holes', 'hey', 'hire', 'happier', 'hint', 'hoped', 'harder', 'holp', 'habits', 'hangman', 'helped', 'hammer', 'herd', 'hardness', 'hurry', 'honorable', 'hatch', 'heaviness', 'haunted', 'humility', 'hinds', 'homage', 'heinous', 'hospital', 'hats', 'heal', 'hates', 'hides', 'hypnotic', 'helps', 'harp', 'helpless', 'harms', 'heav', 'husbandry', 'horizon', 'haughty', 'honors', 'helping', 'hook', 'heated', 'harness', 'hasten', 'humanity', 'horsemen', 'herbs', 'habitation', 'horrors', 'hound', 'heaps', 'hiding', 'hop', 'hiss', 'humorous', 'hurts', 'haggard', 'hesitated', 'hay', 'hellish', 'honoured', 'hypnotise', 'hen', 'hydrogen', 'hedges', 'horribly', 'hurl', 'hoarse', 'hanged', 'humor', 'herb', 'hopeful', 'haunts', 'hundreds', 'heath', 'halt', 'heaviest', 'heave', 'hearers', 'hymn', 'haven', 'hoofs', 'hawk', 'hew', 'harmful', 'honestly', 'hobby', 'hunter', 'headstrong', 'hits', 'healthful', 'hag', 'harlot', 'hip', 'hive', 'hostility', 'hopeless', 'hart', 'havoc', 'hem', 'hum', 'hurriedly', 'hastily', 'hardy', 'hamlet', 'humbled', 'hale', 'heretic', 'hemp', 'homes', 'heaved', 'halter', 'healthy', 'honeysuckle', 'helplessness', 'hostile', 'hardened', 'huswife', 'headlong', 'hog', 'hoop', 'heats', 'hovel', 'hatches', 'highway', 'hunted', 'humbleness', 'homeward', 'happiest', 'hoping', 'hoarsely', 'hilts', 'hotel', 'heathen', 'hurrying', 'handled', 'hoodwink', 'howsoever', 'hypocrite', 'hinges', 'hawthorn', 'hunters', 'hesitation', 'helmet', 'hairy', 'hospitable', 'hood', 'hadn', 'housewife', 'haunting', 'hammering', 'heigh', 'hired', 'heralds', 'hymns', 'handful', 'historical', 'heresy', 'hermit', 'haired', 'husks', 'haviour', 'hereditary', 'handling', 'handles', 'hearer', 'holiness', 'humane', 'hoar', 'hardest', 'honourably', 'helpful', 'hug', 'hypertext', 'hotly', 'hallow', 'hottest', 'halfpenny', 'hospitality', 'hilt', 'herring', 'harshly', 'homicidal', 'happening', 'hawks', 'halting', 'horseback', 'huts', 'harmonium', 'hic', 'hearken', 'hysterical', 'historian', 'honester', 'habited', 'hitherward', 'headland', 'hooks', 'healths', 'hams', 'ham', 'heedful', 'hips', 'hurled', 'hilding', 'hoa', 'heraldry', 'halberds', 'hazards', 'humiliation', 'habitations', 'hypocrisy', 'headless', 'hillside', 'hesitate', 'hotter', 'heady', 'hurtful', 'hosts', 'horrified', 'hopefully', 'healing', 'henceforward', 'hapless', 'hangings', 'honneur', 'hypnotism', 'helms', 'helpers', 'hir', 'hating', 'helper', 'heaving', 'harrowing', 'haps', 'hostages', 'hoard', 'haud', 'holily', 'heroes', 'hoist', 'hangers', 'harlotry', 'hollowness', 'handiwork', 'hateth', 'helmets', 'hammers', 'harbinger', 'handy', 'hares', 'huntsmen', 'hogshead', 'hies', 'hawking', 'hammered', 'hags', 'hereof', 'housekeeper', 'howe', 'habiliments', 'hereabout', 'households', 'hearse', 'horned', 'husbanded', 'harpers', 'hempen', 'handmaid', 'heights', 'homicide', 'hous', 'husbandman', 'heroical', 'holly', 'harshness', 'hurly', 'huntsman', 'howsoe', 'hautboys', 'hissing', 'hallowed', 'healed', 'heating', 'hardiness', 'hovering', 'harbours', 'heifer', 'hulk', 'hull', 'hermits', 'horum', 'holiest', 'hysterics', 'hushed', 'humidity', 'harpy', 'harps', 'hastening', 'housekeeping', 'harping', 'harming', 'hitch', 'hints', 'heedfully', 'hemlock', 'hypnotised', 'hewn', 'harlots', 'hales', 'hazel', 'hors', 'highways', 'hardens', 'hereby', 'hungerly', 'halfpence', 'holland', 'harper', 'halters', 'hobnails', 'heroic', 'handkercher', 'hogs', 'hent', 'hilly', 'hitting', 'haught', 'hardiment', 'homestead', 'hemm', 'hain', 'housewives', 'hight', 'huddle', 'handsomely', 'hinge', 'hest', 'hobbled', 'howled', 'harmed', 'housewifery', 'harbor', 'hasn', 'hindmost', 'harmonious', 'humbler', 'humming', 'headlines', 'headstones', 'hopelessness', 'hoarding', 'hereditaments', 'halcyon', 'humblest', 'highmost', 'happ', 'horsemanship', 'hurting', 'hedgehogs', 'hostage', 'headsman', 'hollowed', 'hoods', 'hazardous', 'horseman', 'hyperboles', 'heaves', 'hems', 'hoots', 'hauled', 'h', 'hangmen', 'herrings', 'handing', 'hatched', 'hoo', 'hoc', 'hero', 'hungered', 'holidays', 'houseless', 'hunts', 'hist', 'humans', 'hearkens', 'heartiness', 'heretics', 'huddled', 'hazarded', 'holdeth', 'hooded', 'hieroglyphical', 'husk', 'hyperbolical', 'herewith', 'hipp', 'handless', 'hurries', 'heark', 'herdsmen', 'hedg', 'humors', 'hitherwards', 'handkerchers', 'harrow', 'hangeth', 'haunch', 'horridly', 'heresies', 'hearsay', 'hordes', 'horrific', 'havings', 'homeliness', 'hearings', 'holla', 'hollowly', 'hooting', 'hup', 'heartly', 'handsaw', 'hieroglyphics', 'holier', 'herbage', 'humanitarian', 'hugely', 'histories', 'hoof', 'heading', 'habitual', 'hacks', 'hover', 'hatchway', 'hoops', 'hums', 'housewifely', 'harboured', 'handspike', 'hurlyburly', 'hoarded', 'harts', 'hackney', 'hues', 'hued', 'hooted', 'heavings', 'heedless', 'hests', 'hermitage', 'happens', 'harbingers', 'hollows', 'halts', 'hailed', 'heritage', 'holidame', 'hoisted', 'hovered', 'horizontal', 'heartstrings', 'habitable', 'heartless', 'howsome', 'herds', 'hindered', 'halloing', 'hi', 'hearting', 'hobbyhorse', 'hafflin', 'harmlessness', 'hallond', 'hinted', 'heighten', 'headers', 'hig', 'hiv', 'hindrance', 'hurling', 'headache', 'hearths', 'hawthorns', 'hummocks', 'hizzing', 'hing', 'hinc', 'howard', 'hereunto', 'hamilton', 'heartbreaking', 'honourible', 'hout', 'hildings', 'homewards', 'hotch', 'heeded', 'hypocrites', 'honorato', 'henry', 'handsomeness', 'healthsome', 'husky', 'handwriting', 'highland', 'humanely', 'homager', 'harold', 'hansom', 'humanities', 'handbook', 'holocaust', 'honolulu', 'hugo', 'hampshire', 'heedfull', 'handmaids', 'hornpipes', 'harvard', 'hunched', 'hoars', 'hoary', 'hushes', 'helena', 'hundredfold', 'housebreaker', 'hosting', 'humanising', 'heartache', 'hamburg', 'hardwood', 'hommes', 'heure', 'harbourage', 'habitat', 'hrs', 'hettin', 'honourest', 'hotmail', 'hillsides', 'highlighted', 'hirritated', 'hurtled', 'hoodman', 'hypodermic', 'hovers', 'heyday', 'hodge', 'huddling', 'hoise', 'haggish', 'hundredweight', 'hinfant', 'hauf', 'haver', 'heareth', 'hitched', 'harris', 'halted', 'helplessly', 'hick', 'hello', 'husbandless', 'harelip', 'helpfully', 'handicraft', 'hebona', 'heraldic', 'helter', 'honeysuckles', 'hosiery', 'haiti', 'homeland', 'holdings', 'holdem', 'headquarters', 'hon', 'hod', 'hunteth', 'hdtv', 'hacker', 'hindu', 'haec', 'hurls', 'housekeepers', 'highlight', 'heaping', 'hominem', 'heather', 'hallown', 'harvests', 'halfway', 'helicopter', 'horning', 'hurricanoes', 'heinously', 'hisses', 'hawaii', 'hamlets', 'hairbreadth', 'herblets', 'hereupon', 'hutch', 'humiliating', 'hyssop', 'haggled', 'hampering', 'harum', 'huntington', 'heathenish', 'halberd', 'harassed', 'humoured', 'houseful', 'handicraftsmen', 'holdin', 'hedgehog', 'hartford', 'headphones', 'hemmed', 'heartsick', 'hendl', 'heirless', 'homelike', 'happed', 'hallucination', 'helen', 'hollywood', 'halidom', 'honeyless', 'hansen', 'heiress', 'hitching', 'hand\_', 'hydra', 'hudson', 'handjobs', 'hews', 'haled', 'hierarchy', 'honorificabilitudinitatibus', 'hatchways', 'hispanic', 'hazelnut', 'heauties', 'hurdle', 'highlights', 'hedged', 'hied', 'housework', 'hospitals', 'hungrily', 'hornbook', 'huswifes', 'holmes', 'householders', 'hometown', 'hinderin', 'harry', 'horseway', 'homeless', 'hayes', 'heifers', 'hotels', 'hoe', 'horsehairs', 'hyen', 'hurtling', 'habitude', 'highness', 'hoast', 'harassment', 'handshake', 'honouring', 'hasted', 'honda', 'hyenas', 'heartease', 'hesitatingly', 'hormone', 'hostels', 'humbling', 'habiliment', 'hypothesis', 'hardcover', 'humourists', 'handedness', 'hwy', 'hujus', 'hatching', 'hellfire', 'harrison', 'hatchment', 'hughes', 'handheld', 'hut', 'hub', 'henderson', 'heater', 'humiliate', 'headier', 'hairless', 'helmed', 'hewlett', 'haberdasher', 'hospitably', 'halifax', 'hybrid', 'hearest', 'haunches', 'hulking', 'hugger', 'hater', 'halves', 'horrorstruck', 'horologe', 'heartbreak', 'headcloths', 'hitachi', 'hailstone', 'happies', 'hesitancy', 'holders', 'hungarian', 'handhelds', 'harked', 'hugeness', 'hummed', 'honeying', 'hygiene', 'hogsheads', 'hoot', 'howbeit', 'hefts', 'hd', 'hc', 'hb', 'hl', 'hh', 'hk', 'hu', 'ht', 'hq', 'hs', 'hr', 'healthcare', 'halloween', 'humiliated', 'honestest', 'heterogeneous', 'halo', 'havin', 'hopelessly', 'herdsman', 'hefted', 'honeycomb', 'hardware', 'headgear', 'hectic', 'hepatitis', 'homicides', 'herbal', 'homily', 'handsomer', 'hals', 'herbaceous', 'hiking', 'hump', 'handmade', 'hermetically', 'hurtless', 'halloa', 'halloo', 'hebrew', 'heals', 'hawed', 'hostel', 'hosted', 'harnessing', 'hoxes', 'housing', 'henchman', 'historians', 'hops', 'hampton', 'hives', 'hatchet', 'holloa', 'hulling', 'hauling', 'hereabouts', 'hockey', 'harnessed', 'hiring', 'hypothetical', 'hobbies', 'hulks', 'hunch', 'happenin', 'halfpennyworth', 'hinderances', 'hungary', 'humouredly', 'huntress', 'heredity', 'heathens', 'hz', 'honorably', 'holidam', 'hinders', 'hilton', 'huntin', 'hideousness', 'historic', 'homework', 'heaped', 'howls', 'hevening', 'hydraulic', 'hily', 'housewares', 'horsed', 'harden', 'haggards', 'herods', 'hawser', 'homepage', 'harried', 'haughtiness', 'hurricane', 'hurricano', 'hautboy', 'hisself', 'horny', 'havior', 'hammerer', 'havens', 'hoards', 'hereto', 'hopest', 'heartlings', 'horseshoe', 'honorary', 'harvey', 'harley', 'handshakes', 'hardocks', 'hideously', 'harrows', 'hailstones', 'huskily', 'honduras', 'homo', 'header', 'howto', 'hearten', 'horrify', 'horrider', 'handbags', 'howlet', 'hallooing', 'hesitating', 'housed', 'hamper', 'holloaing', 'headpiece', 'hardiest', 'harbouring', 'heureux', 'homing', 'href', 'hardening', 'hermetical', 'hans', 'householder', 'html', 'hamstring', 'hong', 'haters', 'hydrocodone', 'hunks', 'hyundai', 'highs', 'hastes', 'houston', 'headline', 'hawaiian', 'hetman', 'hopin', 'hugs', 'hugh', 'hens', 'hugg', 'hash', 'hewing', 'hooal', 'hopkins', 'hearsed', 'hastened', 'heeding', 'horsebacking', 'headset', 'humbles', 'herrin', 'hal', 'homespuns', 'hp'] //Possible words with given combinations

[[('j', 18.0), ('h', 16.0)]] //Possible charaters pressed till now

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U LM // Input layer, Finger

Finger Record : ['RI', 'LM'] // Finger record for future purpose

Probability set : [('e', 33.0), ('r', 1.0)] // Possible charater by Right Index finger in Middle Layer

Current buffer : ['j', 'e']

Viterbi update called

All possible combinations : ['je', 'jr', 'he', 'hr'] //Possible combinations by given sets

Validated combinations : ['je', 'he', 'hr'] // Valid Combinations only

['jest', 'jewel', 'jealous', 'jealousy', 'jewels', 'je', 'jests', 'jet', 'jerkin', 'jealousies', 'jester', 'jesting', 'jelly', 'jenny', 'jerkins', 'jeweller', 'jetties', 'jets', 'jewish', 'jewelry', 'jeans', 'jesters', 'jean', 'jewellery', 'jeremy', 'jesus', 'jews', 'jerry', 'jersey', 'jested', 'jerking', 'jelsoft', 'ject', 'jefferson', 'jesses', 'jeopardy', 'jellies', 'jesse', 'jerks', 'jewelled', 'jeff', 'jeffrey', 'jessica', 'jennifer', 'jeep', 'jeer', 'jeering', 'jerusalem', 'he', 'her', 'here', 'heart', 'hear', 'head', 'heaven', 'heard', 'help', 'hence', 'heavy', 'herself', 'hearts', 'hell', 'held', 'heavens', 'heat', 'heads', 'health', 'heir', 'hearing', 'heels', 'hers', 'heavenly', 'heed', 'height', 'hereafter', 'hearted', 'heartily', 'heavily', 'hears', 'herald', 'henceforth', 'heap', 'hedge', 'helm', 'hearty', 'heavier', 'heirs', 'herein', 'headed', 'heel', 'hearth', 'hey', 'heaviness', 'herd', 'helped', 'heal', 'heinous', 'heav', 'helpless', 'helps', 'heated', 'helping', 'herbs', 'hesitated', 'heaps', 'hedges', 'hen', 'hellish', 'hearers', 'heave', 'heaviest', 'heath', 'herb', 'healthful', 'headstrong', 'hew', 'hem', 'heats', 'headlong', 'helplessness', 'healthy', 'heaved', 'hemp', 'heretic', 'heresy', 'heralds', 'heigh', 'helmet', 'hesitation', 'heathen', 'herring', 'helpful', 'hearer', 'hereditary', 'hermit', 'henceforward', 'healing', 'heady', 'hesitate', 'headless', 'heraldry', 'heedful', 'healths', 'headland', 'hearken', 'heating', 'healed', 'heroical', 'heights', 'hempen', 'hearse', 'hereabout', 'hereof', 'helmets', 'heroes', 'heaving', 'helper', 'helpers', 'helms', 'hest', 'hemm', 'hent', 'heroic', 'hereby', 'hewn', 'hemlock', 'heedfully', 'hermits', 'heifer', 'herds', 'heartless', 'heartstrings', 'heritage', 'hermitage', 'hests', 'heedless', 'heavings', 'heading', 'herbage', 'heartly', 'hearings', 'hearsay', 'heresies', 'hedg', 'herdsmen', 'heark', 'herewith', 'heretics', 'heartiness', 'hearkens', 'hero', 'herrings', 'hems', 'heaves', 'headsman', 'hedgehogs', 'hereditaments', 'headstones', 'headlines', 'herrin', 'headset', 'heeding', 'hearsed', 'hewing', 'hens', 'hetman', 'headline', 'hermetical', 'heureux', 'headpiece', 'hesitating', 'hearten', 'header', 'heartlings', 'hereto', 'herods', 'hevening', 'heaped', 'heathens', 'heredity', 'hereabouts', 'henchman', 'heals', 'hebrew', 'hermetically', 'herbaceous', 'herbal', 'hepatitis', 'hectic', 'headgear', 'hefted', 'herdsman', 'heterogeneous', 'healthcare', 'hefts', 'hesitancy', 'headcloths', 'heartbreak', 'hearest', 'hewlett', 'helmed', 'headier', 'heater', 'henderson', 'hellfire', 'hesitatingly', 'heartease', 'heifers', 'hedged', 'heauties', 'hews', 'heiress', 'helen', 'heirless', 'hendl', 'heartsick', 'hemmed', 'headphones', 'hedgehog', 'heathenish', 'hereupon', 'herblets', 'heinously', 'helicopter', 'heather', 'heaping', 'headquarters', 'helter', 'heraldic', 'hebona', 'helpfully', 'hello', 'helplessly', 'heareth', 'heyday', 'hettin', 'heure', 'heartache', 'helena', 'heedfull', 'healthsome', 'henry', 'heeded', 'heartbreaking', 'hereunto', 'hearths', 'headache', 'headers', 'heighten', 'hearting', 'href', 'hr', 'hrs'] //Possible words with given combinations

[[('j', 18.0), ('h', 16.0)], [('e', 33.0), ('r', 1.0)]] //Possible charaters pressed till now

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M RR

Finger Record : ['RI', 'LM', 'RR']

Probability set : [('l', 15.0), ('s', 1.0), ('k', 1.0)]

Current buffer : ['j', 'e', 'l']

Viterbi update called

All possible combinations : ['jel', 'jes', 'jek', 'hel', 'hes', 'hek', 'hrl', 'hrs', 'hrk']

Validated combinations : ['jel', 'jes', 'jek', 'hel', 'hes', 'hek', 'hrl', 'hrs', 'hrk']

['jelly', 'jellies', 'jelsoft', 'jest', 'jests', 'jester', 'jesting', 'jessica', 'jesse', 'jesses', 'jested', 'jesus', 'jesters', 'help', 'hell', 'held', 'helm', 'helped', 'helps', 'helpless', 'helping', 'hellish', 'helplessness', 'helmet', 'helpful', 'helms', 'helpers', 'helper', 'helmets', 'helena', 'helplessly', 'hello', 'helpfully', 'helter', 'helicopter', 'helen', 'hellfire', 'helmed', 'hesitated', 'hesitation', 'hesitate', 'hest', 'hests', 'hesitatingly', 'hesitancy', 'hesitating', 'hrs']

[[('j', 18.0), ('h', 16.0)], [('e', 33.0), ('r', 1.0)], [('l', 15.0), ('s', 1.0), ('k', 1.0)]]

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M RR

Finger Record : ['RI', 'LM', 'RR', 'RR']

Probability set : [('l', 15.0), ('s', 1.0), ('k', 1.0)]

Current buffer : ['j', 'e', 'l', 'l']

Viterbi update called

All possible combinations : ['jell', 'jels', 'jelk', 'jesl', 'jess', 'jesk', 'jekl', 'jeks', 'jekk', 'hell', 'hels', 'helk', 'hesl', 'hess', 'hesk', 'hekl', 'heks', 'hekk', 'hrll', 'hrls', 'hrlk', 'hrsl', 'hrss', 'hrsk', 'hrkl', 'hrks', 'hrkk']

Validated combinations : ['jell', 'jels', 'jelk', 'jesl', 'jess', 'jesk', 'jekl', 'jeks', 'hell', 'hels', 'helk', 'hesl', 'hess', 'hesk', 'hekl', 'heks', 'hrll', 'hrls', 'hrlk', 'hrsl', 'hrss', 'hrsk', 'hrkl', 'hrks']

['jelly', 'jellies', 'jelsoft', 'jesses', 'jesse', 'jessica', 'hell', 'hellish', 'hellfire', 'hello']

[[('j', 18.0), ('h', 16.0)], [('e', 33.0), ('r', 1.0)], [('l', 15.0), ('s', 1.0), ('k', 1.0)], [('l', 15.0), ('s', 1.0), ('k', 1.0)]]

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U RM

Finger Record : ['RI', 'LM', 'RR', 'RR', 'RM']

Probability set : [('i', 29.0), ('o', 10.0), ('u', 5.0)]

Current buffer : ['e', 'l', 'l', 'i']

Viterbi update called

All possible combinations : ['jelli', 'jello', 'jellu', 'jelsi', 'jelso', 'jelsu', 'jelki', 'jelko', 'jelku', 'jesli', 'jeslo', 'jeslu', 'jessi', 'jesso', 'jessu', 'jeski', 'jesko', 'jesku', 'jekli', 'jeklo', 'jeklu', 'jeksi', 'jekso', 'jeksu', 'helli', 'hello', 'hellu', 'helsi', 'helso', 'helsu', 'helki', 'helko', 'helku', 'hesli', 'heslo', 'heslu', 'hessi', 'hesso', 'hessu', 'heski', 'hesko', 'hesku', 'hekli', 'heklo', 'heklu', 'heksi', 'hekso', 'heksu', 'hrlli', 'hrllo', 'hrllu', 'hrlsi', 'hrlso', 'hrlsu', 'hrlki', 'hrlko', 'hrlku', 'hrsli', 'hrslo', 'hrslu', 'hrssi', 'hrsso', 'hrssu', 'hrski', 'hrsko', 'hrsku', 'hrkli', 'hrklo', 'hrklu', 'hrksi', 'hrkso', 'hrksu']

Validated combinations : ['jelli', 'jello', 'jellu', 'jelsi', 'jelso', 'jelsu', 'jelki', 'jelko', 'jelku', 'jesli', 'jeslo', 'jeslu', 'jessi', 'jesso', 'jessu', 'jeski', 'jesko', 'jesku', 'jekli', 'jeklo', 'jeklu', 'jeksi', 'jekso', 'jeksu', 'helli', 'hello', 'hellu', 'helsi', 'helso', 'helsu', 'helki', 'helko', 'helku', 'hesli', 'heslo', 'heslu', 'hessi', 'hesso', 'hessu', 'heski', 'hesko', 'hesku', 'hekli', 'heklo', 'heklu', 'heksi', 'hekso', 'heksu', 'hrlli', 'hrllo', 'hrllu', 'hrlsi', 'hrlso', 'hrlsu', 'hrlki', 'hrlko', 'hrlku', 'hrsli', 'hrslo', 'hrslu', 'hrssi', 'hrsso', 'hrssu', 'hrski', 'hrsko', 'hrsku', 'hrkli', 'hrklo', 'hrklu', 'hrksi', 'hrkso', 'hrksu']

['jellies', 'jelsoft', 'jessica', 'hellish', 'hello']

[[('j', 18.0), ('h', 16.0)], [('e', 33.0), ('r', 1.0)], [('l', 15.0), ('s', 1.0), ('k', 1.0)], [('l', 15.0), ('s', 1.0), ('k', 1.0)], [('i', 29.0), ('o', 10.0), ('u', 5.0)]]

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LTT //Left Thumb Tapping action which will confirm the word length

Length of the words are : 5 //Word length is directly propotional to number of fingers tapped before thumb tapping action

['hello'] //Only keep words with given length

Long tap left thumb to select the word

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LTL //Left thumb long pressing action which will allows pick word from the list

Current selected word : hello

Keep long pressing left thumb to iterate over the list of possible words : ['hello']

Leave the left thumb to select the word : hello

LTL END //Release left thumb pressing

selected word : hello //Selected word

Start typing ahead

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U RI

Finger Record : ['RI']

Probability set : [('y', 14.0), ('u', 11.0), ('i', 1.0)]

Current buffer : ['y']

All possible combinations : ['y', 'u', 'i']

Validated combinations : ['y', 'u', 'i']

['you', 'your', 'yet', 'young', 'years', 'youth', 'yourself', 'ye', 'yours', 'year', 'yield', 'yer', 'yourselves', 'yellow', 'yesterday', 'yea', 'yonder', 'yard', 'younger', 'yes', 'yond', 'youthful', 'yoke', 'yielded', 'yields', 'yielding', 'y', 'youngest', 'yon', 'yesternight', 'yerself', 'yew', 'yeoman', 'yards', 'yare', 'yawn', 'yearly', 'yell', 'yellowish', 'yawning', 'youths', 'yeomen', 'yeast', 'younker', 'yearning', 'yoked', 'yarn', 'yok', 'yearns', 'yeller', 'yam', 'yelping', 'yarely', 'yesty', 'youngster', 'yielder', 'youngly', 'yellowed', 'yokes', 'yawned', 'yeas', 'yarns', 'yellowing', 'yearn', 'yore', 'york', 'yongrey', 'yale', 'yorkshire', 'yapping', 'you\_', 'yellowness', 'yen', 'yesterdays', 'yacht', 'yielders', 'yaw', 'yukon', 'yu', 'yr', 'ya', 'yn', 'yo', 'yemen', 'yells', 'yicld', 'youtli', 'yews', 'yelling', 'yugoslavia', 'yawing', 'ycliped', 'yerk', 'yoga', 'yang', 'yokefellow', 'yoketh', 'yeah', 'yamaha', 'younglings', 'yrs', 'yelpin', 'ycleped', 'yellows', 'yahoo', 'us', 'up', 'upon', 'use', 'unto', 'under', 'used', 'uncle', 'understand', 'until', 'unless', 'unknown', 'usual', 'unhappy', 'undone', 'useful', 'understood', 'undertake', 'uses', 'utter', 'usually', 'using', 'unnatural', 'understanding', 'unworthy', 'usurp', 'utmost', 'undo', 'unfold', 'upset', 'upper', 'ugly', 'upright', 'unable', 'urge', 'unkind', 'urg', 'unseen', 'undergo', 'unjust', 'unlike', 'uneasy', 'unkindness', 'underneath', 'union', 'unusual', 'undertaker', 'universal', 'uncertain', 'untimely', 'unconscious', 'uttered', 'united', 'user', 'unruly', 'usurping', 'utterance', 'upward', 'unexpected', 'unfortunate', 'unite', 'unlawful', 'ud', 'un', 'usage', 'usurer', 'utterly', 'urging', 'unmannerly', 'ungentle', 'useless', 'urged', 'unwholesome', 'unrest', 'utt', 'unwelcome', 'unity', 'unarm', 'unwillingness', 'usurper', 'unwilling', 'unclean', 'uneasily', 'uncles', 'ultimate', 'unnecessary', 'unhappily', 'unspeakable', 'upstairs', 'unborn', 'untrue', 'uncivil', 'unhallowed', 'unlook', 'unconsciously', 'ungracious', 'ungrateful', 'uttermost', 'upbraid', 'undoubtedly', 'unkindly', 'unfit', 'undertaking', 'unjustly', 'universe', 'unquiet', 'unluckily', 'underground', 'unwillingly', 'uniform', 'undertook', 'uncertainty', 'unsettled', 'unholy', 'unprovided', 'urgent', 'uneven', 'untie', 'unfolding', 'unlock', 'utensils', 'unreasonable', 'unselfish', 'unawares', 'unsatisfied', 'unsure', 'usher', 'urn', 'unlocked', 'unprofitable', 'understands', 'unhappiness', 'unsatisfactory', 'usurers', 'undoing', 'uneasiness', 'utility', 'utters', 'unused', 'unsolicited', 'unaware', 'unmeet', 'unaccustom', 'usest', 'unlink', 'unloose', 'unworthiness', 'upwards', 'unwonted', 'unpleasant', 'uphold', 'undoubted', 'unfolded', 'unlucky', 'unctuous', 'unprepared', 'usband', 'untaught', 'unusually', 'unhandsome', 'ungovern', 'undeserved', 'uplifted', 'upholds', 'unchaste', 'upbraided', 'unprotected', 'unknit', 'usury', 'unspotted', 'unresponsive', 'unpaid', 'uncleanly', 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[[('y', 14.0), ('u', 11.0), ('i', 1.0)]]

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L RI

Finger Record : ['RI', 'RI']

Probability set : [('n', 24.0), ('b', 11.0)]

Current buffer : ['y', 'n']

Viterbi update called

All possible combinations : ['yn', 'yb', 'un', 'ub', 'in', 'ib']

Validated combinations : ['yn', 'yb', 'un', 'ub', 'in', 'ib']

['yn', 'unto', 'under', 'uncle', 'understand', 'until', 'unless', 'unknown', 'unhappy', 'undone', 'understood', 'undertake', 'unnatural', 'understanding', 'unworthy', 'undo', 'unfold', 'unable', 'unkind', 'unjust', 'undergo', 'unseen', 'unkindness', 'uneasy', 'unlike', 'union', 'underneath', 'universal', 'undertaker', 'unusual', 'uncertain', 'unconscious', 'untimely', 'unruly', 'united', 'unfortunate', 'unexpected', 'un', 'unlawful', 'unite', 'unmannerly', 'unrest', 'unwholesome', 'ungentle', 'unclean', 'unwilling', 'unwillingness', 'unarm', 'unity', 'unwelcome', 'ungrateful', 'ungracious', 'unconsciously', 'unlook', 'unhallowed', 'uncivil', 'untrue', 'unborn', 'unspeakable', 'unhappily', 'unnecessary', 'uncles', 'uneasily', 'uncertainty', 'undertook', 'uniform', 'unwillingly', 'underground', 'unluckily', 'unquiet', 'universe', 'unjustly', 'undertaking', 'unfit', 'unkindly', 'undoubtedly', 'understands', 'unprofitable', 'unlocked', 'unsure', 'unsatisfied', 'unawares', 'unselfish', 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[[('y', 14.0), ('u', 11.0), ('i', 1.0)], [('n', 24.0), ('b', 11.0)]]

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U RI

Finger Record : ['RI', 'RI', 'RI']

Probability set : [('y', 14.0), ('u', 11.0), ('i', 1.0)]

Current buffer : ['y', 'n', 'y']

Viterbi update called

All possible combinations : ['yny', 'ynu', 'yni', 'yby', 'ybu', 'ybi', 'uny', 'unu', 'uni', 'uby', 'ubu', 'ubi', 'iny', 'inu', 'ini', 'iby', 'ibu', 'ibi']

Validated combinations : ['yny', 'ynu', 'yni', 'yby', 'ybu', 'ybi', 'uny', 'unu', 'uni', 'uby', 'ubu', 'ubi', 'iny', 'inu', 'ini', 'iby', 'ibu', 'ibi']

['unyok', 'unyoke', 'unusual', 'unused', 'unusually', 'unurg', 'unutterable', 'unutterably', 'unus', 'union', 'universal', 'united', 'unite', 'unity', 'universe', 'uniform', 'university', 'universities', 'unions', 'unicorns', 'unintelligible', 'unites', 'unique', 'unimportant', 'universally', 'uniprotkb', 'uninventive', 'unimpassioned', 'unit', 'univ', 'unix', 'unimproved', 'unified', 'uninhabited', 'unintentional', 'unison', 'units', 'unintelligent', 'uni', 'universale\_', 'unicorn', 'unimpaired', 'unimaginable', 'uninterrupted', 'uninfluenced', 'ubique', 'inundation', 'inurn', 'inure', 'inundations', 'iniquity', 'inimical', 'initiative', 'initials', 'initiate', 'initially', 'initial', 'iniquities', 'initiatives', 'initiated', 'initiating', 'ibiblio']

[[('y', 14.0), ('u', 11.0), ('i', 1.0)], [('n', 24.0), ('b', 11.0)], [('y', 14.0), ('u', 11.0), ('i', 1.0)]]

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M RL // Middle layer Right Little finger is assigned to delete last entry

request for backspace

Removed last finger : RI //Remove last pressed finger

Last : y

previous : n

Viterbi undo called

Current buffer: ['y', 'n']

new comb : ['yn', 'yb', 'un', 'ub', 'in', 'ib'] //Maintain combination by removing last character set

new predicted words : ['yn', 'unto', 'under', 'uncle', 'understand', 'until', 'unless', 'unknown', 'unhappy', 'undone', 'understood', 'undertake', 'unnatural', 'understanding', 'unworthy', 'undo', 'unfold', 'unable', 'unkind', 'unseen', 'undergo', 'unjust', 'unlike', 'uneasy', 'unkindness', 'underneath', 'union', 'unusual', 'undertaker', 'universal', 'uncertain', 'untimely', 'unconscious', 'united', 'unruly', 'unexpected', 'unfortunate', 'unite', 'unlawful', 'un', 'unmannerly', 'ungentle', 'unwholesome', 'unrest', 'unwelcome', 'unity', 'unarm', 'unwillingness', 'unwilling', 'unclean', 'uneasily', 'uncles', 'unnecessary', 'unhappily', 'unspeakable', 'unborn', 'untrue', 'uncivil', 'unhallowed', 'unlook', 'unconsciously', 'ungracious', 'ungrateful', 'undoubtedly', 'unkindly', 'unfit', 'undertaking', 'unjustly', 'universe', 'unquiet', 'unluckily', 'underground', 'unwillingly', 'uniform', 'undertook', 'uncertainty', 'unsettled', 'unholy', 'unprovided', 'uneven', 'untie', 'unfolding', 'unlock', 'unreasonable', 'unselfish', 'unawares', 'unsatisfied', 'unsure', 'unlocked', 'unprofitable', 'understands', 'unhappiness', 'unsatisfactory', 'undoing', 'uneasiness', 'unused', 'unsolicited', 'unaware', 'unmeet', 'unaccustom', 'unlink', 'unloose', 'unworthiness', 'unwonted', 'unpleasant', 'undoubted', 'unfolded', 'unlucky', 'unctuous', 'unprepared', 'untaught', 'unusually', 'unhandsome', 'ungovern', 'undeserved', 'unchaste', 'unprotected', 'unknit', 'unspotted', 'unresponsive', 'unpaid', 'uncleanly', 'unfirm', 'unpleasing', 'une', 'unswept', 'unalterable', 'unseeing', 'unpeople', 'unpitied', 'unstained', 'unnerved', 'unknowing', 'unmanly', 'unseal', 'unsay', 'unconstant', 'unreverend', 'uncanny', 'uncivilized', 'unkindest', 'unadvis', 'unequal', 'undermine', 'untainted', 'unskilful', 'uncovered', 'unmatchable', 'unbroken', 'unacquainted', 'unthrifty', 'unclasp', 'unfurnish', 'unavoided', 'unenforceability', 'undergone', 'unstable', 'untender', 'unsanctified', 'unparallel', 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U RM

Finger Record : ['RI', 'RI', 'RM']

Probability set : [('i', 29.0), ('o', 10.0), ('u', 5.0)]

Current buffer : ['y', 'n', 'i']

Viterbi update called

All possible combinations : ['yni', 'yno', 'ynu', 'ybi', 'ybo', 'ybu', 'uni', 'uno', 'unu', 'ubi', 'ubo', 'ubu', 'ini', 'ino', 'inu', 'ibi', 'ibo', 'ibu']

Validated combinations : ['yni', 'yno', 'ynu', 'ybi', 'ybo', 'ybu', 'uni', 'uno', 'unu', 'ubi', 'ubo', 'ubu', 'ini', 'ino', 'inu', 'ibi', 'ibo', 'ibu']

['union', 'universal', 'united', 'unite', 'unity', 'uniform', 'universe', 'university', 'universally', 'unimportant', 'unique', 'unites', 'unintelligible', 'unicorns', 'unions', 'universities', 'uninfluenced', 'uninterrupted', 'unimaginable', 'unimpaired', 'unicorn', 'universale\_', 'uni', 'unintelligent', 'units', 'unison', 'unintentional', 'uninhabited', 'unified', 'unimproved', 'unix', 'univ', 'unit', 'unimpassioned', 'uninventive', 'uniprotkb', 'unobserved', 'unowed', 'unusual', 'unused', 'unusually', 'unurg', 'unus', 'unutterably', 'unutterable', 'ubique', 'iniquity', 'inimical', 'initiate', 'initials', 'initiative', 'initiating', 'initiated', 'initiatives', 'iniquities', 'initial', 'initially', 'inordinate', 'inoculate', 'inopportune', 'inundation', 'inundations', 'inure', 'inurn', 'ibiblio']

[[('y', 14.0), ('u', 11.0), ('i', 1.0)], [('n', 24.0), ('b', 11.0)], [('i', 29.0), ('o', 10.0), ('u', 5.0)]]

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L LI

Finger Record : ['RI', 'RI', 'RM', 'LI']

Probability set : [('c', 12.0), ('v', 9.0)]

Current buffer : ['y', 'n', 'i', 'c']

Viterbi update called

All possible combinations : ['ynic', 'yniv', 'ynoc', 'ynov', 'ynuc', 'ynuv', 'ybic', 'ybiv', 'yboc', 'ybov', 'ybuc', 'ybuv', 'unic', 'univ', 'unoc', 'unov', 'unuc', 'unuv', 'ubic', 'ubiv', 'uboc', 'ubov', 'ubuc', 'ubuv', 'inic', 'iniv', 'inoc', 'inov', 'inuc', 'inuv', 'ibic', 'ibiv', 'iboc', 'ibov', 'ibuc', 'ibuv']

Validated combinations : ['ynic', 'yniv', 'ynoc', 'ynov', 'ynuc', 'ynuv', 'ybic', 'ybiv', 'yboc', 'ybov', 'ybuc', 'ybuv', 'unic', 'univ', 'unoc', 'unov', 'unuc', 'unuv', 'ubic', 'ubiv', 'uboc', 'ubov', 'ubuc', 'ubuv', 'inic', 'iniv', 'inoc', 'inov', 'inuc', 'inuv', 'ibic', 'ibiv', 'iboc', 'ibov', 'ibuc', 'ibuv']

['unicorns', 'unicorn', 'universal', 'universe', 'university', 'universities', 'universally', 'univ', 'universale\_', 'inoculate']

[[('y', 14.0), ('u', 11.0), ('i', 1.0)], [('n', 24.0), ('b', 11.0)], [('i', 29.0), ('o', 10.0), ('u', 5.0)], [('c', 12.0), ('v', 9.0)]]

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LTL //Allows user to switch between words from possible combinations.

Current selected word : unicorns

Keep long pressing left thumb to iterate over the list of possible words : ['unicorns', 'unicorn', 'universal', 'universe', 'university', 'universities', 'universally', 'univ', 'universale\_', 'inoculate']

Leave the left thumb to select the word : unicorns

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LTL

Current selected word : unicorn

Keep long pressing left thumb to iterate over the list of possible words : ['unicorns', 'unicorn', 'universal', 'universe', 'university', 'universities', 'universally', 'univ', 'universale\_', 'inoculate']

Leave the left thumb to select the word : unicorn

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LTL

Current selected word : universal

Keep long pressing left thumb to iterate over the list of possible words : ['unicorns', 'unicorn', 'universal', 'universe', 'university', 'universities', 'universally', 'univ', 'universale\_', 'inoculate']

Leave the left thumb to select the word : universal

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LTL //Desired word is picked up

Current selected word : universe

Keep long pressing left thumb to iterate over the list of possible words : ['unicorns', 'unicorn', 'universal', 'universe', 'university', 'universities', 'universally', 'univ', 'universale\_', 'inoculate']

Leave the left thumb to select the word : universe

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LTL END //Release left thumb long pressing action.

selected word : universe // Selected word

Start typing ahead