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1 Basic Test Results

```
1 Wed 25 Jan 2023 13:57:21 IST
2 Wed 25 Jan 2023 13:57:21 IST
3 Archive: /tmp/bodek.gdswltj2/intro2cs1/ex11/ruths/final/submission
4 extracting: src/AUTHORS
5 inflating: src/boggle.py
6 inflating: src/boggle_board_randomizer.py
7 inflating: src/boggle_dict.txt
8 inflating: src/boggle_game.py
9 inflating: src/common.py
10 inflating: src/controller.py
11 inflating: src/ex11_utils.py
12 inflating: src/gui.py
13 inflating: src/README
14 4 passed tests out of 4 in test set named 'presubmit'.
15 result_code presubmit 4 1
16 --> BEGIN TEST INFORMATION
17 Test name: valid_b1_d2_abfa
18 Module tested: ex11_utils
19 Function call: is_valid_path([[ 'A', 'B', 'C', 'D'], ['E', 'F', 'G', 'H'], ['I', 'J', 'K', 'L'], ['M', 'N', 'O', 'P']], [(0, 0), (0, 1), (0, 2), (0, 3)], [(0, 0), (0, 1), (0, 2), (0, 3)])
20 Expected return value: None
21 More test options: {}
22 --> END TEST INFORMATION
23 *****
24 ***** There is a problem:
25 ***** The test named 'valid_b1_d2_abfa' failed.
26 *****
27 Wrong result, input: [[ 'A', 'B', 'C', 'D'], ['E', 'F', 'G', 'H'], ['I', 'J', 'K', 'L'], ['M', 'N', 'O', 'P']], [(0, 0), (0, 1), (0, 2), (0, 3)], [(0, 0), (0, 1), (0, 2), (0, 3)]
28 expected: None
29 actual: 'ABFA'
30 result_code valid_b1_d2_abfa wrong 1
31 --> BEGIN TEST INFORMATION
32 Test name: valid_b1_d2_aabb
33 Module tested: ex11_utils
34 Function call: is_valid_path([[ 'A', 'B', 'C', 'D'], ['E', 'F', 'G', 'H'], ['I', 'J', 'K', 'L'], ['M', 'N', 'O', 'P']], [(0, 0), (0, 1), (0, 2), (0, 3)], [(0, 0), (0, 1), (0, 2), (0, 3)])
35 Expected return value: None
36 More test options: {}
37 --> END TEST INFORMATION
38 *****
39 ***** There is a problem:
40 ***** The test named 'valid_b1_d2_aabb' failed.
41 *****
42 Wrong result, input: [[ 'A', 'B', 'C', 'D'], ['E', 'F', 'G', 'H'], ['I', 'J', 'K', 'L'], ['M', 'N', 'O', 'P']], [(0, 0), (0, 1), (0, 2), (0, 3)], [(0, 0), (0, 1), (0, 2), (0, 3)]
43 expected: None
44 actual: 'AABB'
45 result_code valid_b1_d2_aabb wrong 1
46 --> BEGIN TEST INFORMATION
47 Test name: valid_b1_d5_long2
48 Module tested: ex11_utils
49 Function call: is_valid_path([[ 'A', 'B', 'C', 'D'], ['E', 'F', 'G', 'H'], ['I', 'J', 'K', 'L'], ['M', 'N', 'O', 'P']], [(0, 0), (0, 1), (0, 2), (0, 3)], [(0, 0), (0, 1), (0, 2), (0, 3)])
50 Expected return value: None
51 More test options: {}
52 --> END TEST INFORMATION
53 *****
54 ***** There is a problem:
55 ***** The test named 'valid_b1_d5_long2' failed.
56 *****
57 Wrong result, input: [[ 'A', 'B', 'C', 'D'], ['E', 'F', 'G', 'H'], ['I', 'J', 'K', 'L'], ['M', 'N', 'O', 'P']], [(0, 0), (0, 1), (0, 2), (0, 3)], [(0, 0), (0, 1), (0, 2), (0, 3)]
58 expected: None
59 actual: 'ABCDHLPONMIJGFA'
```


2 README

```
1 # Boggle Game - Exercise 11
2
3 ## Game Extras
4
5 1. Pausing - It is possible for the player to pause the game indefinitely. When the player pauses the game, all the lett
6 2. Pause Menu - When the game is paused, a pause menu appears, allowing the player to either reset the game or choose a
7 3. Difficulty Level - The player can decide between normal or hard difficulty at the pause menu. Hard difficulty is with
8 4. Hints - At the end of each round, hints are added to the collection, allowing the player to see clearly which words h
9 5. Easter eggs - Some special prompts when the player has 2 or more sequential mistakes. 5 mistakes have further special
```

3 AUTHORS

1 mallis,ruths

4 boggle.py

```
1 #####
2 # FILE : boggle.py
3 # WRITER : Nimrod M. ; Ruth S.
4 # EXERCISE : intro2cs1 ex11 2023
5 # DESCRIPTION: The Launch File for Boggle Game
6 # STUDENTS I DISCUSSED THE EXERCISE WITH: N/A
7 # WEB PAGES I USED: N/A
8 # NOTES: N/A
9 #####
10
11 import sys
12
13 from ex11_utils import create_words_dict
14 from controller import BoggleController
15
16 def start_game(word_dict_path: str) -> None:
17     """
18     Starting the game, with GUI.
19
20     :param word_dict_path: Path on filesystem for the
21         words dictionary to work by (e.g. acceptable words)
22     """
23     # Reading the file and removing all whitespaces etc.
24     filedata = ""
25     with open(word_dict_path, "r") as dict_file:
26         filedata = dict_file.read().split()
27
28     # Creating the words dict, and the controlling, and let the games begin
29     wordsdict = create_words_dict(filedata)
30     controller = BoggleController(wordsdict)
31     controller.run_game()
32
33 if __name__ == "__main__":
34     # Expecting a single command-line argument - Path to the words dict
35     if 2 == len(sys.argv):
36         start_game(sys.argv[1])
37     else:
38         start_game("boggle_dict.txt")
```

5 boggle board randomizer.py

```
1 #####
2 # FILE: boggle_board_randomizer.py
3 # EXERCISE: Intro2cs ex11 2022-2023
4 # WRITER: Intro2cs staff
5 # DESCRIPTION: A helper file for ex11 that randomizes a Boggle board
6 #####
7 import random
8 from typing import List
9
10
11 BOARD_SIZE = 4
12 LETTERS = [
13     ['A', 'E', 'A', 'N', 'E', 'G'],
14     ['A', 'H', 'S', 'P', 'C', 'O'],
15     ['A', 'S', 'P', 'F', 'F', 'K'],
16     ['O', 'B', 'J', 'O', 'A', 'B'],
17     ['I', 'O', 'T', 'M', 'U', 'C'],
18     ['R', 'Y', 'V', 'D', 'E', 'L'],
19     ['L', 'R', 'E', 'I', 'X', 'D'],
20     ['E', 'I', 'U', 'N', 'E', 'S'],
21     ['W', 'N', 'G', 'E', 'E', 'H'],
22     ['L', 'N', 'H', 'N', 'R', 'Z'],
23     ['T', 'S', 'T', 'I', 'Y', 'D'],
24     ['O', 'W', 'T', 'O', 'A', 'T'],
25     ['E', 'R', 'T', 'T', 'Y', 'L'],
26     ['T', 'O', 'E', 'S', 'S', 'I'],
27     ['T', 'E', 'R', 'W', 'H', 'V'],
28     ['N', 'U', 'I', 'H', 'M', 'QU']
29 ]
30
31
32 def randomize_board(dice_list: List[List[str]] = LETTERS) -> List[List[str]]:
33     """
34     Creates a random Boggle board.
35     :param dice_list: 2-dimensional list of letters to generate the board from.
36     :return: a 2D list of strings representing a random Boggle board.
37     """
38     dice_indices = list(range(len(dice_list)))
39     random.shuffle(dice_indices)
40     dice_indices_iter = iter(dice_indices)
41     board = []
42     for i in range(BOARD_SIZE):
43         row = []
44         for j in range(BOARD_SIZE):
45             die = dice_list[next(dice_indices_iter)]
46             letter = random.choice(die)
47             row.append(letter)
48         board.append(row)
49     return board
50
51
52 if __name__ == "__main__":
53     from pprint import pprint
54     pprint(randomize_board())
```

6 boggle dict.txt

1 AAH
2 AAHED
3 AAHING
4 AAHS
5 AAL
6 AALII
7 AALIIS
8 AALS
9 AARDVARK
10 AARDVARKS
11 AARDWOLF
12 AARDWOLVES
13 AARGH
14 AARRGH
15 AARRGHH
16 AARTI
17 AARTIS
18 AAS
19 AASVOGEL
20 AASVOGELS
21 ABA
22 ABAC
23 ABACA
24 ABACAS
25 ABACI
26 ABACK
27 ABACS
28 ABACTERIAL
29 ABACTINAL
30 ABACTINALLY
31 ABACTOR
32 ABACTORS
33 ABACUS
34 ABACUSES
35 ABAFT
36 ABAKA
37 ABAKAS
38 ABALONE
39 ABALONES
40 ABAMP
41 ABAMPERE
42 ABAMPERES
43 ABAMPS
44 ABAND
45 ABANDED
46 ABANDING
47 ABANDON
48 ABANDONED
49 ABANDONEDLY
50 ABANDONEE
51 ABANDONEES
52 ABANDONER
53 ABANDONERS
54 ABANDONING
55 ABANDONMENT
56 ABANDONMENTS
57 ABANDONS
58 ABANDONWARE
59 ABANDONWARES

60 ABANDS
61 ABAPICAL
62 ABAS
63 ABASE
64 ABASED
65 ABASEDLY
66 ABASEMENT
67 ABASEMENTS
68 ABASER
69 ABASERS
70 ABASES
71 ABASH
72 ABASHED
73 ABASHEDLY
74 ABASHES
75 ABASHING
76 ABASHLESS
77 ABASHMENT
78 ABASHMENTS
79 ABASIA
80 ABASIAS
81 ABASING
82 ABASK
83 ABATABLE
84 ABATE
85 ABATED
86 ABATEMENT
87 ABATEMENTS
88 ABATER
89 ABATERS
90 ABATES
91 ABATING
92 ABATIS
93 ABATISES
94 ABATOR
95 ABATORS
96 ABATTIS
97 ABATTISES
98 ABATTOIR
99 ABATTOIRS
100 ABATTU
101 ABATURE
102 ABATURES
103 ABAXIAL
104 ABAXILE
105 ABAYA
106 ABAYAS
107 ABB
108 ABBA
109 ABBACIES
110 ABBACY
111 ABBAS
112 ABBATIAL
113 ABBE
114 ABBED
115 ABBES
116 ABBESS
117 ABBESSES
118 ABBEY
119 ABBEYS
120 ABBOT
121 ABBOTCIES
122 ABBOTCY
123 ABBOTS
124 ABBOTSHIP
125 ABBOTSHIPS
126 ABBREVIATE
127 ABBREVIATED

128 ABBREVIATES
129 ABBREVIATING
130 ABBREVIATION
131 ABBREVIATIONS
132 ABBREVIATOR
133 ABBREVIATORS
134 ABBREVIATORY
135 ABBREVIATURE
136 ABBREVIATURES
137 ABBS
138 ABCEE
139 ABCEES
140 ABCOULOMB
141 ABCOULOMBS
142 ABDABS
143 ABDICABLE
144 ABDICANT
145 ABDICANTS
146 ABDICATE
147 ABDICATED
148 ABDICATES
149 ABDICATING
150 ABDICATION
151 ABDICATIONS
152 ABDICATIVE
153 ABDICATOR
154 ABDICATORS
155 ABDOMEN
156 ABDOMENS
157 ABDOMINA
158 ABDOMINAL
159 ABDOMINALLY
160 ABDOMINALS
161 ABDOMINOPLASTY
162 ABDOMINOUS
163 ABDUCE
164 ABDUCED
165 ABDUCENS
166 ABDUCENT
167 ABDUCENTES
168 ABDUCES
169 ABDUCING
170 ABDUCT
171 ABDUCTED
172 ABDUCTEE
173 ABDUCTEES
174 ABDUCTING
175 ABDUCTION
176 ABDUCTIONS
177 ABDUCTOR
178 ABDUCTORES
179 ABDUCTORS
180 ABDUCTS
181 ABEAM
182 ABEAR
183 ABEARING
184 ABEARS
185 ABECEDARIAN
186 ABECEDARIANS
187 ABED
188 ABEGGING
189 ABEIGH
190 ABELE
191 ABELES
192 ABELIA
193 ABELIAN
194 ABELIAS
195 ABELMOSK

196 ABELMOSKS
197 ABER
198 ABERDEVINE
199 ABERDEVINES
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229 ABETTOR
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231 ABEYANCE
232 ABEYANCES
233 ABEYANCIES
234 ABEYANCY
235 ABEYANT
236 ABFARAD
237 ABFARADS
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253 ABHORRINGS
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257 ABIDANCES
258 ABIDDEN
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344 ABLEGATES
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350 ABLES
351 ABLEST
352 ABLET
353 ABLETS
354 ABLING
355 ABLINGS
356 ABLINS
357 ABLOOM
358 ABLOW
359 ABLUENT
360 ABLUENTS
361 ABLUSH
362 ABLUTED
363 ABLUTION
364 ABLUTIONARY
365 ABLUTIONS
366 ABLUTOMANE
367 ABLUTOMANES
368 ABLY
369 ABMHO
370 ABMHOS
371 ABNEGATE
372 ABNEGATED
373 ABNEGATES
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377 ABNEGATOR
378 ABNEGATORS
379 ABNORMAL
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382 ABNORMALITIES
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388 ABNORMOUS
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412 ABOLISHING
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423 ABOLLA
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426 ABOMA
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428 ABOMASA
429 ABOMASAL
430 ABOMASI
431 ABOMASUM
432 ABOMASUS
433 ABOMINABLE
434 ABOMINABLENESS
435 ABOMINABLY
436 ABOMINATE
437 ABOMINATED
438 ABOMINATES
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464 ABORIGINALLY
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466 ABORIGINE
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470 ABORNING
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472 ABORTED
473 ABORTEE
474 ABORTEES
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540 ABRAXAS
541 ABRAXASES
542 ABRAY
543 ABRAYED
544 ABRAYING
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548 ABREACT
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567 ABRIDGER
568 ABRIDGERS
569 ABRIDGES
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572 ABRIDGMENTS
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574 ABRIN
575 ABRINS
576 ABRIIS
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582 ABROGATED
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585 ABROGATION
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587 ABROGATIVE
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589 ABROGATORS
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594 ABROSIA
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597 ABRUPTER
598 ABRUPTTEST
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624 ABSCISSAS
625 ABSCISSE
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628 ABSCISSINS
629 ABSCISSION
630 ABSCISSIONS
631 ABSCOND
632 ABSCONDED
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676 ABSOLUTENESSES
677 ABSOLUTER
678 ABSOLUTES
679 ABSOLUTEST
680 ABSOLUTION
681 ABSOLUTIONS
682 ABSOLUTISE
683 ABSOLUTISED
684 ABSOLUTISES
685 ABSOLUTISING
686 ABSOLUTISM
687 ABSOLUTISMS
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691 ABSOLUTIVE
692 ABSOLUTIVES
693 ABSOLUTIZE
694 ABSOLUTIZED
695 ABSOLUTIZES
696 ABSOLUTIZING
697 ABSOLUTORY
698 ABSOLVABLE
699 ABSOLVE
700 ABSOLVED
701 ABSOLVENT
702 ABSOLVENTS
703 ABSOLVER
704 ABSOLVERS
705 ABSOLVES
706 ABSOLVING
707 ABSOLVITOR
708 ABSOLVITORS
709 ABSONANT
710 ABSORB
711 ABSORBABILITIES
712 ABSORBABILITY
713 ABSORBABLE
714 ABSORBANCE
715 ABSORBANCES
716 ABSORBANCIES
717 ABSORBANCY
718 ABSORBANT
719 ABSORBANTS
720 ABSORBATE
721 ABSORBATES
722 ABSORBED
723 ABSORBEDLY
724 ABSORBEFACIENT
725 ABSORBEFACIENTS
726 ABSORBENCIES
727 ABSORBENCY
728 ABSORBENT
729 ABSORBENTS
730 ABSORBER
731 ABSORBERS
732 ABSORBING
733 ABSORBINGLY
734 ABSORBS
735 ABSORPTANCE
736 ABSORPTANCES
737 ABSORPTIOMETER
738 ABSORPTIOMETERS
739 ABSORPTION

740 ABSORPTIONS
741 ABSORPTIVE
742 ABSORPTIVENESS
743 ABSORPTIVITIES
744 ABSORPTIVITY
745 ABSQUATULATE
746 ABSQUATULATED
747 ABSQUATULATES
748 ABSQUATULATING
749 ABSTAIN
750 ABSTAINED
751 ABSTAINER
752 ABSTAINERS
753 ABSTAINING
754 ABSTAINS
755 ABSTEMIOUS
756 ABSTEMIOUSLY
757 ABSTEMIOUSNESS
758 ABSTENTION
759 ABSTENTIONISM
760 ABSTENTIONISMS
761 ABSTENTIONIST
762 ABSTENTIONISTS
763 ABSTENTIONS
764 ABSTENTIOUS
765 ABSTERGE
766 ABSTERGED
767 ABSTERGENT
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9449	ANTIENTROPIC
9450	ANTIENTS
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9452	ANTIEPILEPTIC
9453	ANTIEPILEPTICS
9454	ANTIEROTIC
9455	ANTIESTROGEN
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9457	ANTIEVOLUTION
9458	ANTIEVOLUTIONS
9459	ANTIFA
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9461	ANTIFAS
9462	ANTIFASCISM
9463	ANTIFASCISMS
9464	ANTIFASCIST
9465	ANTIFASCISTS
9466	ANTIFASHION
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9468	ANTIFASHIONS
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9470	ANTIFATIGUE
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9472	ANTIFEBRILES
9473	ANTIFEDERALIST
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9475	ANTIFEMALE
9476	ANTIFEMININE
9477	ANTIFEMINISM
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9479	ANTIFEMINIST
9480	ANTIFEMINISTS
9481	ANTIFERROMAGNET
9482	ANTIFERTILITY
9483	ANTIFILIBUSTER
9484	ANTIFILIBUSTERS
9485	ANTIFLU
9486	ANTIFOAM
9487	ANTIFOAMING
9488	ANTIFOG
9489	ANTIFOGGING
9490	ANTIFORECLOSURE
9491	ANTIFOREIGN
9492	ANTIFOREIGNER
9493	ANTIFORMALIST
9494	ANTIFOULING
9495	ANTIFOULINGS
9496	ANTIFRAUD
9497	ANTIFREEZE
9498	ANTIFREEZES
9499	ANTIFRICTION
9500	ANTIFUNGAL
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9502	ANTIFUR
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9517	ANTIGOVERNMENT
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9519	ANTIGRAVITIES
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9522	ANTIGROPELOS
9523	ANTIGROWTH
9524	ANTIGUERRILLA
9525	ANTIGUN
9526	ANTIHALATION
9527	ANTIHALATIONS
9528	ANTIHELICES
9529	ANTIHELIX
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9531	ANTIHELMINTHIC
9532	ANTIHELMINTHICS
9533	ANTIHERO
9534	ANTIHEROES
9535	ANTIHEROIC
9536	ANTIHEROINE
9537	ANTIHEROINES
9538	ANTITHERPES
9539	ANTIHIJACK
9540	ANTIHISTAMINE
9541	ANTIHISTAMINES
9542	ANTIHISTAMINIC
9543	ANTIHISTAMINICS
9544	ANTIHISTORICAL
9545	ANTIHOMOSEXUAL
9546	ANTIHUMAN
9547	ANTIHUMANISM
9548	ANTIHUMANISMS
9549	ANTIHUMANISTIC
9550	ANTIHUNTER
9551	ANTIHUNTERS
9552	ANTIHUNTING
9553	ANTIHYDROGEN
9554	ANTIHYDROGENS
9555	ANTIHYSTERIC
9556	ANTIHYSTERICS
9557	ANTIJACOBIN
9558	ANTIJACOBINS
9559	ANTIJAM
9560	ANTIJAMMING
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9562	ANTIKICKBACK
9563	ANTIKNING
9564	ANTIKNINGS
9565	ANTIKNOCK
9566	ANTIKNOCKS
9567	ANTILABOR
9568	ANTILEAK
9569	ANTILEFT
9570	ANTILEGOMENA
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9893 ANTIREALISMS
9894 ANTIREALIST
9895 ANTIREALISTS
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9897 ANTIRED
9898 ANTIREFLECTION
9899 ANTIREFLECTIVE
9900 ANTIREFORM
9901 ANTIREGULATORY
9902 ANTIREJECTION
9903 ANTIRELIGION
9904 ANTIRELIGIONS
9905 ANTIRELIGIOUS
9906 ANTIREPUBLICAN
9907 ANTIREPUBLICANS
9908 ANTIRETROVIRAL
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9910 ANTIRHEUMATIC
9911 ANTIRHEUMATICS
9912 ANTIRIOT
9913 ANTIRITUALISM
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9915 ANTIROCK
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9917 ANTIROMANTIC
9918 ANTIROMANTICISM
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9927 ANTIS
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9935 ANTISCORBUTIC
9936 ANTISCORBUTICS
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9939 ANTISEGREGATION
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9942 ANTISENTIMENTAL
9943 ANTISEPALOUS
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10001
10002 *****
10003 *** THIS FILE HAD TOO MANY LINES AND WAS TRUNCATED ***
10004 *****

7 boggle game.py

```
1 #####
2 # FILE : boggle_game.py
3 # WRITER : Nimrod M. ; Ruth S.
4 # EXERCISE : intro2cs1 ex11 2023
5 # DESCRIPTION: Interface for the Boggle Game
6 # STUDENTS I DISCUSSED THE EXERCISE WITH: N/A
7 # WEB PAGES I USED: N/A
8 # NOTES: N/A
9 #####
10
11 from typing import List, Optional
12 from common import Coordinate
13 from ex11_utils import Board, Path, WordsDictionary, is_valid_path_sorted, is_in_neighborhood, max_score_paths_sorted
14
15 BoardPath = List[Coordinate]
16
17 class BoggleGame(object):
18     """
19     Represents a single game of Boggle.
20     """
21
22     def __init__(self, board: Board, words: WordsDictionary) -> None:
23         """
24         Initializes a game with the given board and words dictionary
25         representing all the valid words for assembly.
26         """
27         self._board: Board = board
28         self._words_dict: WordsDictionary = words
29         self._score: int = 0
30         self._current_path: BoardPath = []
31         self._found_words: List[str] = []
32
33     def move(self, coordinate: Coordinate) -> bool:
34         """
35         Moving to the specified coordinate.
36         Movement is legal only if the last coordinate moved to is in the
37         neighborhood of the new coordinate (it's in distance of 1 at most)
38         """
39         last_coordinate = self._current_path[-1] if 0 != len(self._current_path) else None
40
41         # Checking if the movement can be performed, i.e. if the requested
42         # coordinate is a neighboring coordinate
43         if last_coordinate is not None and not is_in_neighborhood(last_coordinate, coordinate):
44             return False
45
46         self._current_path.append(coordinate)
47         return True
48
49     def submit_path(self) -> Optional[str]:
50         """
51         Attempting to submit the path as a word
52         If the word doesn't exist in the dictionary, None is returned.
53         """
54         found_word = is_valid_path_sorted(self._board,
55                                           self._current_path,
56                                           self._words_dict)
57
58         # If it word wasn't found and it exists in the dictionary, count it,
59         # otherwise just ignore it and reset the current path
```

```

60         if (found_word is not None) and (found_word not in self._found_words):
61             self._score += len(self._current_path) ** 2
62             self._found_words.append(found_word)
63         elif found_word in self._found_words:
64             # Since the word was already found we should show it as invalid
65             found_word = None
66
67         # Resetting the current path
68         self._current_path = []
69
70         return found_word
71
72     def get_score(self) -> int:
73         """
74         Returning the current score.
75         """
76         return self._score
77
78     def get_current_word(self) -> str:
79         """
80         Returning the current word created by the path.
81         """
82         return self._path_to_word(self._current_path)
83
84     def get_hints(self) -> List[str]:
85         """
86         Returning all the words which can be assembled with the given board.
87         """
88         hints = []
89         for path in max_score_paths_sorted(self._board, self._words_dict):
90             word = self._path_to_word(self._path_from_legacy_path(path))
91             if (word not in self._found_words) and (word not in hints):
92                 hints.append(word)
93         return hints
94
95     @staticmethod
96     def _path_from_legacy_path(legacy_path: Path) -> BoardPath:
97         """
98         Converting a path of legacy coordinates to path of Coordinate objects.
99         """
100         new_path = []
101         for coordinate in legacy_path:
102             new_path.append(Coordinate.from_legacy_coordinate(coordinate))
103         return new_path
104
105     def _path_to_word(self, path: BoardPath) -> str:
106         """
107         Converting a path to its relevant word.
108         """
109         word = ""
110         for coordinate in path:
111             word += self._board[coordinate.row][coordinate.column]
112         return word

```

8 common.py

```
1 #####
2 # FILE : common.py
3 # WRITER : Nimrod M. ; Ruth S.
4 # EXERCISE : intro2cs1 ex11 2023
5 # DESCRIPTION: Common functionality for the game
6 # STUDENTS I DISCUSSED THE EXERCISE WITH: N/A
7 # WEB PAGES I USED: N/A
8 # NOTES: N/A
9 #####
10
11 from typing import Tuple
12
13 LegacyCoordinate = Tuple[int, int]
14
15 class Coordinate(object):
16     """
17     Represents a coordinate in a Two-Dimensional Coordinate System
18     """
19
20     def __init__(self, row: int, column: int) -> None:
21         """
22         Initializes the coordinate with the given Y (row) and X (column) values
23         """
24         # Attributes are intentionally public, to refrain from getter/setter functions
25         self.row = row
26         self.column = column
27
28     @staticmethod
29     def from_legacy_coordinate(legacy_coordinate: LegacyCoordinate):
30         """
31         Creating a Coordinate from a legacy (Y, X) Tuple Coordinate
32         """
33         return Coordinate(legacy_coordinate[0], legacy_coordinate[1])
34
35     def __str__(self) -> str:
36         """
37         Prints the coordinates in (row, column) format
38         """
39         return "({row}, {column})".format(row=self.row, column=self.column)
40
41     def __repr__(self) -> str:
42         """
43         Returns the coordinates in a string format (similar to __str__)
44         """
45         return self.__str__()
46
47     def __eq__(self, other: object) -> bool:
48         """
49         Compares one coordinate to another.
50         A coordinate is equal if both the row and column coordinates are exact.
51         """
52         if (other.row == self.row) and (other.column == self.column):
53             return True
54         return False
55
```

9 controller.py

```
1 #####
2 # FILE : controller.py
3 # WRITER : Nimrod M. ; Ruth S.
4 # EXERCISE : intro2cs1 ex11 2023
5 # DESCRIPTION: Game-to-GUI Interface & Controller
6 # STUDENTS I DISCUSSED THE EXERCISE WITH: N/A
7 # WEB PAGES I USED: N/A
8 # NOTES: N/A
9 #####
10
11 import datetime
12 from typing import List
13
14 from boggle_board_randomizer import randomize_board
15 from gui import BoggleGUI, BoggleGUICallbacks
16 from boggle_game import BoggleGame
17 from common import Coordinate
18 from ex11_utils import WordsDictionary
19
20 class BoggleController(object):
21     """
22     Interfacing between the GUI and the Boggle Game
23     """
24
25     def __init__(self, words_dict: WordsDictionary, round_time_seconds=180) -> None:
26         """
27         Initializing the controller.
28         Each round of Boggle will be with the given words dictionary, with
29         the board being generated randomly.
30         """
31         callbacks = BoggleGUICallbacks(
32             self._letter_callback,
33             self._submit_callback,
34             self._timer_callback,
35             self._runstate_callback,
36             self._menu_callback)
37         self._gui = BoggleGUI(callbacks)
38         self._round_time = round_time_seconds
39         self._words_dict = words_dict
40
41         # Should be updated once a game starts, and overridden when
42         # a new game begins
43         self._current_board = None
44         self._current_game = None
45         self._timer = 0
46         self._runstate = False
47         self._difficulty = BoggleGUICallbacks.MENU_EVENT_DIFFICULTY_NORMAL
48         self._score_penalty = 0
49         self._failed_submits = 0
50
51     def run_game(self) -> None:
52         """
53         Starting the operation of the game
54         """
55         self._gui.start()
56
57     def _start_new_round(self) -> None:
58         """
59         Starting a new game round, without closing the GUI
```

```

60         """
61         self._current_board = randomize_board()
62         self._current_game = BoggleGame(self._current_board, self._words_dict)
63         self._gui.reset(self._current_board)
64         self._timer = 0
65         self._score_penalty = 0
66         self._failed_submits = 0
67
68     def _menu_callback(self, menu_event: str) -> None:
69         """
70         Called upon clicking of a button on the GUI's Pause Menu.
71
72         :param menu_event: The event which risen the callback.
73         """
74         # Game resetting handling
75         if BoggleGUICallbacks.MENU_EVENT_RESET == menu_event:
76             self._start_new_round()
77             self._set_run_state(True)
78         # Difficulty handling
79         elif (BoggleGUICallbacks.MENU_EVENT_DIFFICULTY_NORMAL == menu_event) or \
80              (BoggleGUICallbacks.MENU_EVENT_DIFFICULTY_HARD == menu_event):
81             self._difficulty = menu_event
82
83     def _letter_callback(self, coordinate: Coordinate):
84         """
85         Called upon clicking of a letter button.
86         Attempting to move the game object to the selected coordinate
87         """
88         if self._current_game is None:
89             return
90
91         # Trying to move on the board, if the movement is
92         # succesful, then we disable the button until the word is submitted
93         if self._current_game.move(coordinate):
94             self._gui.disable_letter_button(coordinate)
95             self._gui.set_current_word(self._current_game.get_current_word())
96
97     def _timer_callback(self):
98         """
99         Called upon timed event of the GUI.
100         Used for handling the round timer.
101         """
102         # Making sure we have a game running
103         if (self._current_game is None) or (not self._runstate):
104             return
105
106         # Calculating the remaining time
107         time_left = self._round_time - self._timer
108
109         # If no remaining time is left, end the round
110         if 0 >= time_left:
111             self._gui.set_timer(datetime.time())
112             self._gui.set_letter_buttons_state(False, hide=False)
113             self._add_final_hints(self._current_game.get_hints())
114             self._gui.set_run_state(True)
115             self._current_board = None
116             self._current_game = None
117         else:
118             # Otherwise update the clock
119             self._gui.set_timer(
120                 datetime.time(minute=time_left // 60, second=time_left % 60))
121
122             self._timer += 1 # Adding one second
123
124     def _add_final_hints(self, hints: List[str]) -> None:
125         """
126         When the game finishes, we add all the possible words which
127         can be assembled from the current board to the collection.

```



```

128         Those are marked in a unique way to those found.
129         """
130         for hint in hints:
131             self._gui.add_collection_hint(hint)
132
133     def _submit_callback(self):
134         """
135         Called upon pressing the submit button on the GUI.
136         This callback submits the word to the game and updates the score
137         and collection accordingly.
138         """
139         if self._current_game is None:
140             return
141
142         submitted_word = self._current_game.submit_path()
143
144         if submitted_word is not None:
145             self._gui.add_to_collection(submitted_word)
146             self._failed_submits = 0
147         else:
148             if self._is_hard_difficulty():
149                 # The submitted word is either wrong or already submitted,
150                 # we should add penalty if it's hard difficulty
151                 self._score_penalty += 5
152                 self._timer += 5
153                 self._failed_submits += 1
154
155         self._gui.set_score(self._current_game.get_score() - self._score_penalty)
156
157         # Easteregg prompts
158         if self._failed_submits >= 2 and self._failed_submits <= 4:
159             self._gui.set_current_word("\(_)/-", color="orange")
160         elif self._failed_submits > 4:
161             self._gui.set_current_word("( ° ° ", color="red")
162         else:
163             self._gui.set_current_word("")
164
165         # Re-enabling all the buttons upon submission,
166         # whether succesful or not
167         self._gui.set_letter_buttons_state(True, hide=False)
168
169     def _set_run_state(self, new_state: bool) -> None:
170         """
171         Setting the running state of the game to paused or resumed.
172         When the game is paused, a menu appears, when resumed the menu will
173         be destroyed.
174         """
175         self._runstate = new_state
176         self._gui.set_letter_buttons_state(new_state, hide=not new_state, board=self._current_board)
177         self._gui.set_run_state(not new_state)
178
179         # The game is running, runstate is True, so destroy the pause menu
180         if self._runstate:
181             self._gui.destroy_pause_menu()
182         else: # The game is paused, create the pause menu
183             self._gui.create_pause_menu()
184
185     def _runstate_callback(self) -> None:
186         """
187         Called upon pressing of the running state button, and
188         moving the game to resumed or paused state.
189         """
190         if self._current_game is None:
191             self._start_new_round()
192             self._set_run_state(True)
193         else:
194             self._set_run_state(not self._runstate)
195

```

```
196     def _is_hard_difficulty(self):
197         """
198         Checking if the current difficulty level set is hard.
199         """
200         return (BoggleGUICallbacks.MENU_EVENT_DIFFICULTY_HARD == self._difficulty)
201
```

10 ex11 utils.py

```
1 #####
2 # FILE : ex11_utils.py
3 # WRITER : Nimrod M. ; Ruth S.
4 # EXERCISE : intro2cs1 ex11 2023
5 # DESCRIPTION: Utility functionality for operations with the
6 #             words dictionary and performance maximizing.
7 # STUDENTS I DISCUSSED THE EXERCISE WITH: N/A
8 # WEB PAGES I USED: N/A
9 # NOTES: N/A
10 #####
11
12 #####
13 # > Search Algorithm:
14 #   The logic behind the search for valid words, paths and the
15 #   maximal score paths is based on the same implementation.
16 #   This implementation is separated to 3 different components:
17 #       1) Sorting and structuring
18 #       2) Anagram-path combination iteration
19 #       3) Word assembly from path combinations
20 # 1) Sorting and structuring
21 #   This component, primarily implemented in create_words_dict
22 #   is taking a not-necessarily sorted list of words and sorts
23 #   it in a unique way for the search to work efficiently later.
24 #   The output of this component is a dictionary, with length
25 #   (int) as a key and another dictionary as value - The length
26 #   is the length of the words stored within the value
27 #   dictionary. The value dictionary has anagram as keys and
28 #   the words (a set) which can be created by
29 #   anagram as value. Anagram is the letters which comprise a
30 #   particular word, sorted alphabetically. For instance,
31 #   the words 'cat' and 'act' have the same anagram - 'act'.
32 # 2) Anagram-path combination iteration
33 #   Now that we have this new structure from (1), we now
34 #   assemble path combinations on a given board, that is
35 #   when requested a path of particular length, we create all
36 #   the possible combinations of paths (whether legal or not)
37 #   on the board, with combinations being distinct, with no
38 #   repetitions and unordered. This allows us to assemble
39 #   anagrams from each path, and if this anagram exists in the
40 #   dictionary from (1) we move on to the next step.
41 # 3) Word assembly from path combinations
42 #   In this stage we take all the words associated with the
43 #   anagram of the current path, and try to assemble them
44 #   with the letters of the current path. In this stage we
45 #   deny any paths which are illegal.
46 #   This stage imitates assembling words from permutations
47 #   (which are distinct, ordered, with no repetitions) but
48 #   it's more efficient since we try the words which appear in
49 #   the dictionary, and not the words which don't.
50 #####
51
52 import numpy as np
53 import copy
54 import itertools
55 from typing import List, Tuple, Iterable, Optional, Dict, Callable, Set
56
57 from common import LegacyCoordinate, Coordinate
58
59 Board = List[List[str]]
```

```

60 Path = List[Tuple[int, int]]
61 # The structure of the words dictionary (post-sorting).
62 # The dictionary contains length-to-anagrams mapping,
63 # with the anagrams themselves being anagram-to-words
64 # mapping, with words being all the words built from the
65 # anagram
66 WordsDictionary = Dict[int, Dict[str, Set]]
67 # Condition callback for _find_valid_paths, receives the relevant word (str)
68 # and the paths associated with it (List[Path]). Callback should return
69 # boolean specifying whether the word is valid.
70 ConditionCallback = Callable[[str, List[Path]], bool]
71
72 # Indices specifying access to the legacy coordinate
73 COORDINATE_ROW_INDEX = 0
74 COORDINATE_COLUMN_INDEX = 1
75
76 def create_words_dict(words: Iterable[str]) -> WordsDictionary:
77     """
78     Creates a sorted words dictionary according to the specification
79     further documented in the top of the file.
80     """
81     sorted_dict = {}
82     for word in words:
83         if len(word) not in sorted_dict:
84             sorted_dict[len(word)] = {}
85
86         anagram = "".join(sorted(word))
87         if anagram not in sorted_dict[len(word)]:
88             sorted_dict[len(word)][anagram] = set()
89
90         sorted_dict[len(word)][anagram].add(word)
91
92     return sorted_dict
93
94 def is_in_neighborhood(coordinate1: Coordinate, coordinate2: Coordinate) -> bool:
95     """
96     Returns whether the given coordinates are in the neighborhood of one another.
97     """
98     row_difference = abs(coordinate1.row - coordinate2.row)
99     column_difference = abs(coordinate1.column - coordinate2.column)
100     return (row_difference in [1, 0]) and (column_difference in [1, 0])
101
102 def _is_in_neighborhood_legacy(coordinate1: LegacyCoordinate, coordinate2: LegacyCoordinate) -> bool:
103     """
104     Returns whether the given coordinates are in the neighborhood of one another.
105     """
106     return is_in_neighborhood(Coordinate.from_legacy_coordinate(coordinate1),
107                               Coordinate.from_legacy_coordinate(coordinate2))
108
109 def _assemble_word(valid_coordinates: np.array,
110                   word: str,
111                   last_coordinate: LegacyCoordinate,
112                   current_path: Path,
113                   all_paths: List[Path]) -> None:
114     """
115     Attempting to assemble the given word from the given coordinates.
116     Each coordinate stores the actual X-Y coordinates and the letter
117     associated with it.
118
119     :param last_coordinate: Should be None when first called.
120     :param current_path: Should be empty list when first called.
121     :param all_paths: Upon completion, all paths will be stored in this
122                       list, so it should be a persistent list.
123     """
124     if len(word) == 0:
125         all_paths.append(copy.deepcopy(current_path))
126     return
127

```

```

128     # Extract all the words which start with the FIRST letter of the current
129     # combination in the coordinate
130     letter_instances = np.extract((np.char.startswith(valid_coordinates['letter'], word[0])), valid_coordinates)
131     for instance in letter_instances:
132         # Now check that the word actually starts with all the letters of the combination
133         if not word.startswith(instance['letter']):
134             continue
135
136         instance_coord = instance['coordinate']
137         if last_coordinate is not None and not _is_in_neighborhood_legacy(last_coordinate, instance_coord):
138             continue
139
140         current_path.append(instance_coord)
141         _assemble_word(
142             valid_coordinates[valid_coordinates != instance],
143             word[len(instance['letter']):],
144             instance_coord,
145             current_path,
146             all_paths)
147         current_path.pop()
148
149 def _find_valid_paths(path_length: int,
150                      board: Board,
151                      word_dict: WordsDictionary,
152                      condition_callback: Optional[ConditionCallback] = None) -> List[Path]:
153     """
154     Finding all the valid paths of path_length on the given board.
155     This is a helper function.
156
157     :param condition_callback: Optionally control over which words and paths
158                               are allowed into the final result.
159                               If not given, all legal words and paths are
160                               inserted. Specification for the callback is
161                               documented at ConditionCallback.
162     """
163     # Laying down all the coordinates of the board with their
164     # respective value as a dictionary for better traversal
165     board_coordinates = {(row_index, column_index): board[row_index][column_index]
166                          for row_index in range(len(board)) for column_index in range(len(board[0]))}
167
168     # Generating all letter combinations (no repetitions, order doesn't matter)
169     combinations = itertools.combinations(board_coordinates.items(), path_length)
170
171     paths = []
172     # Iterate on all possible combinations
173     for current_comb in combinations:
174         current = dict(current_comb)
175         # Create the anagram - First we join all the coordinate values,
176         # then we sort (in order to support coordinates storing
177         # more than one letter in them, e.g. QU)
178         anagram = "".join(sorted("".join(current.values()))))
179
180         try:
181             if anagram in word_dict[len(anagram)]:
182                 for word in word_dict[len(anagram)][anagram]:
183                     word_paths = []
184                     # Organize all the coordinates in a ordered matter so
185                     # each letter can be accessed by coordinate or letter.
186                     # Constant: We allow max of 100 letters for each coordinate.
187                     coordinate_map = np.array(
188                         list(current_comb),
189                         dtype=[('coordinate', tuple), ('letter', 'U100')])
190                     _assemble_word(coordinate_map, word, None, [], word_paths)
191                     # If either of the two conditions are true,
192                     # add the paths to the rest of valid paths
193                     # Condition 1: There are some paths, there is a condition callback,
194                     # and the callback returned that the paths should be added.
195                     # Condition 2: There is no condition callback,

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```

196         # so add the paths unconditionally
197         if ((len(word_paths) != 0) and
198             condition_callback and
199             condition_callback(word, word_paths)) or \
200             (not condition_callback):
201             paths += word_paths
202     except KeyError:
203         pass # This anagram doesn't exist, move on to the next combination
204
205     return paths
206
207 def is_valid_path_sorted(board: Board, path: List[Coordinate], words: WordsDictionary) -> Optional[str]:
208     """
209     Validating a given path.
210     A path is invalid if:
211         1) Any of the cells are not neighboring
212         2) The word created by the path doesn't appear in the dictionary
213     The order of the 'path' argument is essential.
214     """
215     last_coordinate = None
216     current_word = ""
217     for coordinate in path:
218         # Making sure the coordinates are in the neighborhood of one another
219         # if at least one coordinate in the path is not in the neighborhood,
220         # return with failure
221         if (last_coordinate is not None) and (not is_in_neighborhood(last_coordinate, coordinate)):
222             return None
223
224         # Check that the coordinates are within the board boundaries
225         if (coordinate.row >= len(board) or coordinate.row < 0) or \
226             (coordinate.column >= len(board[0]) or coordinate.column < 0):
227             return None
228
229         # Narrowing the list of words by the letter on the current coordinate
230         current_word += board[coordinate.row][coordinate.column]
231
232         # Updating the last coordinate we handled, so it can be checked in the
233         # next coordinate
234         last_coordinate = coordinate
235
236     # Try to find the word in the dict
237     try:
238         if current_word not in words[len(current_word)]["".join(sorted(current_word))]:
239             return None
240     except KeyError:
241         return None # The anagram doesn't exist, or length doesn't exist
242
243     return current_word
244
245 def is_valid_path(board: Board, path: Path, words: Iterable[str]) -> Optional[str]:
246     """
247     Validating a given path.
248     A path is invalid if:
249         1) Any of the cells are not neighboring
250         2) The word created by the path doesn't appear in the dictionary
251     The order of the 'path' argument is essential.
252     Unlike is_valid_path_sorted, this function receives a non-sorted
253     dictionary 'words'.
254     """
255     words_dict = create_words_dict(words)
256     new_path = []
257     for coordinate in path:
258         new_path.append(Coordinate.from_legacy_coordinate(coordinate))
259     return is_valid_path_sorted(board, new_path, words_dict)
260
261 def find_length_n_paths(n: int, board: Board, words: Iterable[str]) -> List[Path]:
262     """
263     Finding all the possible paths of length n on

```

```

264     a given board for the given words.
265     Paths do not repeat, while words can repeat (different paths to same word)
266     Documentation for searching algorithm appears in the top of the file.
267
268     :param n: The exact length of the path.
269             Words CAN be longer, depending on the board.
270     """
271     # Sorting the given words by length and anagrams
272     word_dict = create_words_dict(words)
273     return _find_valid_paths(n, board, word_dict)
274
275 def find_length_n_words(n: int, board: Board, words: Iterable[str]) -> List[Path]:
276     """
277     Finding all the possible paths which point to words of length n
278     on a given board for the given words.
279     The length of the paths is not constant, and can differ.
280     Paths do not repeat, while words can repeat (different paths to same word)
281
282     :param n: The exact length of the word.
283             Paths can be longer, or shorter, depending on the board.
284     """
285     # Sorting the given words by length and anagrams
286     word_dict = create_words_dict(words)
287     paths = []
288     for current_path_len in range(n + 1):
289         paths += _find_valid_paths(current_path_len,
290                                   board,
291                                   word_dict,
292                                   lambda word, word_paths: len(word) == n)
293     return paths
294
295 def max_score_paths_sorted(board: Board, words_dict: WordsDictionary) -> List[Path]:
296     """
297     Finding all the paths on the board which lead to a maximal score,
298     with the score depending on the length of each path, granting
299     greater score for greater paths.
300     Paths and words can appear only once.
301     There is no control over the length of the paths or the words.
302     This function receives a sorted dictionary of words.
303     """
304     words = {}
305
306     # Iterating on the number of possible path lengths according to
307     # the board's dimensions.
308     for current_path_len in range(len(board) * len(board[0])):
309
310         # A special function for selecting only 1 instance of
311         # a word instead of receiving multiple paths of the same word
312         # by the return value of the _find_valid_paths
313         def path_condition(word, word_paths, current_words):
314             current_words[word] = word_paths[0]
315             return True
316
317         # We don't care about the return value as we picked only 1 instance
318         # of the word already via path_condition
319         _find_valid_paths(current_path_len, board, words_dict, lambda word, word_paths: path_condition(word, word_paths, words))
320
321     return list(words.values())
322
323 def max_score_paths(board: Board, words: Iterable[str]) -> List[Path]:
324     """
325     Finding all the paths on the board which lead to a maximal score,
326     with the score depending on the length of each path, granting
327     greater score for greater paths.
328     Paths and words can appear only once.
329     There is no control over the length of the paths or the words.
330     This function differs from max_score_paths_sorted by receiving
331     a non-sorted words dictionary.

```

```
332     """
333     word_dict = create_words_dict(words)
334     return max_score_paths_sorted(board, word_dict)
```


11 gui.py

```
1 #####
2 # FILE : gui.py
3 # WRITER : Nimrod M. ; Ruth S.
4 # EXERCISE : intro2cs1 ex11 2023
5 # DESCRIPTION: GUI for the Boggle Game
6 # STUDENTS I DISCUSSED THE EXERCISE WITH: N/A
7 # WEB PAGES I USED: N/A
8 # NOTES: N/A
9 #####
10
11 import datetime
12 from typing import Callable, Dict
13 import tkinter as tk
14 from tkinter import font
15
16 from common import Coordinate
17 from ex11_utils import Board
18
19 # Called upon letter button pressed - receives one parameter: the coordinate
20 # of the button on the board.
21 LetterCallback = Callable[[Coordinate], None]
22 # Called upon word submission.
23 SubmitCallback = Callable[[], None]
24 # Called upon timer event triggering.
25 TimerCallback = Callable[[], None]
26 # Called upon pressing of the runstate button (pause/resume)
27 RunStateCallback = Callable[[], None]
28 # Called upon pressing of a button within the menu.
29 # Receives single parameter - the button which was pressed (see constants
30 # in BoggleGUICallbacks)
31 MenuCallback = Callable[[str], None]
32
33 class BoggleGUICallbacks(object):
34     """
35     Callbacks specification and interface for Boggle GUI
36     """
37
38     MENU_EVENT_RESET = "Reset"
39     MENU_EVENT_DIFFICULTY_HARD = "HardDif"
40     MENU_EVENT_DIFFICULTY_NORMAL = "NormalDif"
41
42     def __init__(
43         self,
44         letter_callback: LetterCallback,
45         submit_callback: SubmitCallback,
46         timer_callback: TimerCallback,
47         runstate_callback: RunStateCallback,
48         menu_callback: MenuCallback) -> None:
49         """
50         Initializes all the callbacks.
51         It shouldn't be assumed a callback is not required.
52         """
53         self.letter_callback = letter_callback
54         self.submit_callback = submit_callback
55         self.timer_callback = timer_callback
56         self.runstate_callback = runstate_callback
57         self.menu_callback = menu_callback
58
59 class BoggleGUI(object):
```

```

60     """
61     Responsible for the GUI component of the Boggle Game
62     """
63
64     # Color constants
65     BACKGROUND_COLOR_1 = "#03001C"
66     BACKGROUND_COLOR_2 = "#301E67"
67     COLLECTION_COLOR = "#301E67"
68     COLLECTION_HINT_COLOR = "#AF4E4F"
69     LETTER_BUTTON_COLOR = "#5B8FB9"
70     DISABLED_LETTER_COLOR = "#4C0027"
71     SUBMIT_BUTTON_COLOR = "#150050"
72     TEXT_COLOR = "white"
73
74     # Font and text constants
75     DEFAULT_FONT = "Agency FB"
76     RUNSTATE_RESUME = " "
77     RUNSTATE_PAUSE = " "
78
79     # Timer event triggering delay in milliseconds
80     TIMER_DELAY = 1000
81
82     def __init__(self, callbacks: BoggleGUICallbacks) -> None:
83         """
84         Initializes the GUI with the given callbacks.
85         The GUI is not created on the screen until the main loop is started.
86         """
87         self._callbacks = callbacks
88
89         self._primary_window = tk.Tk()
90         self._primary_window.title("Boggle Game")
91         self._primary_window.resizable(False, False)
92
93         self._create_control_panel(self._primary_window)
94         self._create_current_word_label(self._primary_window)
95
96         self._letter_buttons: Dict[str, (Coordinate, tk.Button)] = {}
97         self._create_lower_pane(self._primary_window)
98
99         self._words_collection.tag_configure("hint", background=self.COLLECTION_HINT_COLOR)
100
101         self._menu_window = None
102
103     def create_pause_menu(self):
104         """
105         Spawns the pause menu on the screen.
106         All user interaction with the menu is controlled by the menu_callback.
107         """
108         if self._menu_window is not None:
109             # Destroying the active menu, if there is such, before spawning
110             # new one.
111             self.destroy_pause_menu()
112
113         # Creating the subwindow
114         self._menu_window = tk.Toplevel(
115             self._primary_window,
116             background=self.BACKGROUND_COLOR_1)
117         self._menu_window.title("Boggle Menu")
118         self._menu_window.resizable(False, False)
119
120         # Reset button
121         reset_button = tk.Button(
122             self._menu_window,
123             text="RESET",
124             height=5,
125             width=20,
126             bg = self.LETTER_BUTTON_COLOR,
127             fg = self.TEXT_COLOR,

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128         font = font.Font(family=self.DEFAULT_FONT, size=12, weight='bold'),
129         borderwidth = 0,
130         highlightthickness = 0,
131         command=lambda: self._callbacks.menu_callback(
132             BoggleGUICallbacks.MENU_EVENT_RESET))
133
134     # Hard difficulty button
135     hard_button = tk.Button(
136         self._menu_window,
137         text="HARD DIFFICULTY",
138         height=5,
139         width=20,
140         bg = self.LETTER_BUTTON_COLOR,
141         fg = self.TEXT_COLOR,
142         font = font.Font(family=self.DEFAULT_FONT, size=12, weight='bold'),
143         borderwidth = 0,
144         highlightthickness = 0,
145         command=lambda: self._callbacks.menu_callback(
146             BoggleGUICallbacks.MENU_EVENT_DIFFICULTY_HARD))
147
148     # Normal difficulty button
149     normal_button = tk.Button(
150         self._menu_window,
151         text="NORMAL DIFFICULTY",
152         height=5,
153         width=20,
154         bg = self.LETTER_BUTTON_COLOR,
155         fg = self.TEXT_COLOR,
156         font = font.Font(family=self.DEFAULT_FONT, size=12, weight='bold'),
157         borderwidth = 0,
158         highlightthickness = 0,
159         command=lambda: self._callbacks.menu_callback(
160             BoggleGUICallbacks.MENU_EVENT_DIFFICULTY_NORMAL))
161
162     # Spawning buttons
163     reset_button.pack(side=tk.TOP, fill=tk.BOTH, padx=10, pady=10)
164     normal_button.pack(side=tk.TOP, fill=tk.BOTH, padx=10, pady=10)
165     hard_button.pack(side=tk.TOP, fill=tk.BOTH, padx=10, pady=10)
166
167     def destroy_pause_menu(self):
168         """
169         Destroying the pause menu, if it is spawned.
170         """
171         if self._menu_window is None:
172             # It isn't spawned, just ignore the call.
173             return
174
175         self._menu_window.destroy()
176         self._menu_window = None
177
178     def start(self):
179         """
180         Starting the primary loop of the GUI.
181         From this point on, all interaction of other parts of the program
182         are done via the callbacks given in initialization.
183         """
184         self._set_timed_event()
185         self._primary_window.mainloop()
186
187     def reset(self, board: Board) -> None:
188         """
189         Resetting the state of the game on the GUI.
190         """
191         # Resetting buttons
192         self.set_letter_buttons_state(True, hide=False, board=board)
193
194         # Resetting timer & score
195         self.set_score(0)

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196         self.set_timer(datetime.time())
197
198         # Resetting words collection
199         self._words_collection.configure(state="normal")
200         self._words_collection.delete("1.0", tk.END)
201         self._words_collection.configure(state="disable")
202
203     def set_score(self, score: int) -> None:
204         """
205         Setting the score visible to the user.
206         """
207         self._score_label['text'] = str(score)
208
209     def set_timer(self, time: datetime.time) -> None:
210         """
211         Setting the timer value visible to the user.
212         """
213         self._timer_label['text'] = time.strftime("%M:%S")
214
215     def set_current_word(self, current_word: str, color: str = "white") -> None:
216         """
217         Setting the word currently appearing to the user.
218         """
219         self._current_word_label['text'] = current_word
220         self._current_word_label['fg'] = color
221
222     def disable_letter_button(self, button_coordinate: Coordinate) -> None:
223         """
224         Disabling a SINGLE letter button from being pressed again.
225         """
226         button: tk.Button = self._letter_buttons[str(button_coordinate)][1]
227         button.configure(background=self.DISABLED_LETTER_COLOR, state='disable')
228
229     def set_letter_buttons_state(self, enable: bool, hide: bool, board: Board=None) -> None:
230         """
231         Setting the state of all the letter buttons.
232
233         :param enable: Enables or disables ALL the letter buttons.
234         :param hide: Hides or reveals the letters on the buttons.
235         :param board: The board from which to extract letter info.
236         """
237         for button in self._letter_buttons:
238             coordinate = self._letter_buttons[button][0]
239             button: tk.Button = self._letter_buttons[button][1]
240             new_text = button['text'] if board is None else board[coordinate.row][coordinate.column]
241             button.configure(
242                 background = self.LETTER_BUTTON_COLOR,
243                 state = 'normal' if enable else 'disable',
244                 text = "" if hide else new_text)
245
246     def add_to_collection(self, word: str) -> None:
247         """
248         Adding a given word to the collection of words.
249         """
250         # Enabling edit before inserting, disabling it afterwards
251         self._words_collection.configure(state="normal")
252         self._words_collection.insert(tk.END, word + "\n")
253         self._words_collection.configure(state="disable")
254
255     def add_collection_hint(self, word: str) -> None:
256         """
257         Adding a given word to the collection of words as a hint
258         (painted specially)
259         """
260         self._words_collection.configure(state="normal")
261         self._words_collection.insert(tk.END, word + "\n", "hint")
262         self._words_collection.configure(state="disable")
263

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```

264 def set_run_state(self, resume: bool) -> None:
265     """
266     Setting the visible runstate to the user.
267
268     :param resume: Whether the resume button appears or the pause.
269     """
270     if resume:
271         self._runstate_button.configure(text=self.RUNSTATE_RESUME, fg="green")
272     else:
273         self._runstate_button.configure(text=self.RUNSTATE_PAUSE, fg="red")
274
275 def _set_timed_event(self) -> None:
276     """
277     Setting and resetting the timed event for the given timer delay
278     (set in a constant)
279     """
280     self._callbacks.timer_callback()
281     self._primary_window.after(self.TIMER_DELAY, self._set_timed_event)
282
283 #####
284 # GUI Initialization Methods #
285 #####
286
287 def _create_control_panel(self, parent_frame: tk.Frame) -> None:
288     """
289     Creating the top control panel (with time, score and pause/resume button)
290     """
291     control_panel = tk.Frame(parent_frame, bg=self.BACKGROUND_COLOR_1)
292     control_panel.pack(side=tk.TOP, fill=tk.BOTH)
293
294     # Configurting the sizes of each element on the control panel
295     # The leftmost element is the score, the middle is the pause/resume button
296     # and the rightmost element is the timer.
297     control_panel.columnconfigure(0, weight=2, minsize=200)
298     control_panel.columnconfigure(1, weight=1, minsize=100)
299     control_panel.columnconfigure(2, weight=2, minsize=200)
300
301     # Setting the score label, allowing access from outside
302     self._score_label = tk.Label(
303         control_panel,
304         fg = self.TEXT_COLOR,
305         bg = self.BACKGROUND_COLOR_1,
306         font = font.Font(
307             family=self.DEFAULT_FONT, size=20, weight='bold')
308     )
309     self._score_label["text"] = "0"
310     self._score_label.grid(row=0, column=0, sticky=tk.NSEW)
311
312     # Setting the pause/resume button
313     self._runstate_button = tk.Button(
314         control_panel,
315         text =self.RUNSTATE_RESUME,
316         fg = "green",
317         bg = self.BACKGROUND_COLOR_1,
318         font = font.Font(
319             family=self.DEFAULT_FONT, size=30, weight='bold'),
320         borderwidth = 0,
321         highlightthickness = 0,
322         command=lambda: self._callbacks.runstate_callback())
323     self._runstate_button.grid(row=0, column=1, sticky=tk.NSEW, padx=10, pady=10)
324
325     # Setting the timer label, allowing access from outside
326     self._timer_label = tk.Label(
327         control_panel,
328         fg = self.TEXT_COLOR,
329         bg = self.BACKGROUND_COLOR_1,
330         text = "00:00",
331         font = tk.font.Font(family=self.DEFAULT_FONT, size=20, weight='bold'))

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```

332         self._timer_label.grid(row=0, column=2, sticky=tk.NSEW)
333
334     def _create_current_word_label(self, parent_window: tk.Frame) -> None:
335         """
336         Creating the current word label, which displays the current word
337         to the user.
338         """
339         label_frame = tk.Frame(parent_window, bg=self.BACKGROUND_COLOR_1)
340         label_frame.pack(side=tk.TOP, fill=tk.BOTH)
341         self._current_word_label = tk.Label(label_frame, fg="white", bg=self.BACKGROUND_COLOR_1, font=font.Font(family=self.DEFAULT_FONT))
342         self._current_word_label.pack(side=tk.TOP, fill=tk.BOTH)
343
344     def _create_lower_pane(self, parent_window: tk.Frame) -> None:
345         """
346         Creating the lower pane, which houses the letter button table,
347         submit button and words collection.
348         """
349         # Initializing the lower pane to have 2 columns,
350         # one for the letter buttons table, the other for the word collection
351         lower_pane = tk.Frame(parent_window, bg=self.BACKGROUND_COLOR_2)
352         lower_pane.pack(side=tk.TOP, fill=tk.BOTH)
353         lower_pane.columnconfigure(0, weight=4)
354         lower_pane.columnconfigure(1, weight=1, minsize=200)
355
356         # The right frame is for the word collection
357         right_frame = tk.Frame(
358             lower_pane, bg=self.BACKGROUND_COLOR_2, bd=0)
359         right_frame.grid(row=0, column=1, sticky=tk.NSEW)
360         self._create_word_collection(right_frame)
361
362         # The left frame is for the buttons table and the submit button
363         # Creating all the buttons on the GUI
364         left_frame = tk.Frame(lower_pane, bg=self.BACKGROUND_COLOR_2)
365         left_frame.grid(row=0, column=0, sticky=tk.NSEW)
366
367         button_table = tk.Frame(left_frame, bg=self.BACKGROUND_COLOR_2)
368         button_table.grid(row=0, column=0, sticky=tk.NSEW)
369         self._create_letter_table(button_table, dimension=4)
370
371         # Creating the submit button
372         submit_button = tk.Button(
373             left_frame,
374             text="SUBMIT",
375             bg = self.SUBMIT_BUTTON_COLOR,
376             fg=self.TEXT_COLOR,
377             font=font.Font(family=self.DEFAULT_FONT, size=30, weight='bold'),
378             borderwidth=0,
379             highlightthickness=0,
380             command=lambda: self._callbacks.submit_callback())
381         submit_button.grid(
382             row=1,
383             sticky=tk.NSEW,
384             padx=10,
385             pady=10)
386
387     def _create_word_collection(self, parent_window: tk.Frame) -> None:
388         """
389         Creating the words collection display to the side of the letter table.
390         """
391         # Setting the label for the collection, it is constant so we don't
392         # have any use for it later
393         collection_label = tk.Label(
394             parent_window,
395             text = "C O L L E C T I O N",
396             fg = "white",
397             bg = self.BACKGROUND_COLOR_2,
398             font = font.Font(family=self.DEFAULT_FONT, size=20, weight="bold", underline=True))
399         collection_label.pack(side=tk.TOP, fill=tk.BOTH)

```

```

400
401     # Setting the scrollbars (horizontal and vertical)
402     words_scrollbar_x = tk.Scrollbar(parent_window, orient=tk.HORIZONTAL)
403     words_scrollbar_x.pack(side=tk.BOTTOM, fill=tk.X)
404
405     words_scrollbar_y = tk.Scrollbar(parent_window, orient=tk.VERTICAL)
406     words_scrollbar_y.pack(side=tk.RIGHT, fill=tk.Y)
407
408     # Creating the text box for the words collection, it is set to disabled
409     # starting state in order to prevent editing from the user,
410     # it should be set to 'normal' whenever editing is necessary
411     self._words_collection = tk.Text(
412         parent_window,
413         xscrollcommand = words_scrollbar_x,
414         yscrollcommand = words_scrollbar_y,
415         wrap = tk.NONE,
416         state = "disable",
417         bg = self.COLLECTION_COLOR,
418         fg= "white",
419         bd = 0,
420         height = 1,
421         width = 20,
422         font=font.Font(family=self.DEFAULT_FONT, size=20))
423     self._words_collection.pack(side=tk.LEFT, fill=tk.BOTH)
424
425     def _create_letter_table(self, parent_frame: tk.Frame, dimension: int) -> None:
426         """
427         Creating the letter table.
428         """
429         # We rely on the fact that the board is squared
430         # (hence the dimension is X by X)
431         for row_index in range(dimension):
432             parent_frame.rowconfigure(row_index, minsize=100)
433             for column_index in range(dimension):
434                 parent_frame.columnconfigure(column_index, minsize=100)
435                 self._create_letter_button(
436                     parent_frame,
437                     row_index,
438                     column_index)
439
440     def _create_letter_button(self, parent: tk.Frame, row: int, column: int) -> None:
441         """
442         Creating a single button for the letter table, in the given coordinates.
443         """
444         button_coordinate = Coordinate(row, column)
445         button = tk.Button(
446             parent,
447             bg = self.LETTER_BUTTON_COLOR,
448             fg = self.TEXT_COLOR,
449             font = font.Font(family=self.DEFAULT_FONT, size=30, weight='bold'),
450             borderwidth = 0,
451             highlightthickness = 0,
452             command = lambda: self._callbacks.letter_callback(button_coordinate))
453         button.grid(
454             row = row,
455             column = column,
456             sticky = tk.NSEW,
457             padx = 10,
458             pady = 10)
459
460         self._letter_buttons[str(button_coordinate)] = (button_coordinate, button)
461         return button

```