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MITx: 6.00.1x Introduction to Computer Science and Programming Using Python

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PROBLEM 2: DECRYPTION (5/5 points)

Now that you have all the pieces to the puzzle, please use them to decode the file `story.txt` . In the skeleton file, you will see a method `getStoryString()` that will return the encrypted version of the story. Fill in the following function; it should create the wordList, obtain the story, and then decrypt the story. Be sure you've read through the whole file to see what helper functions we've defined for you that may assist you in these tasks! This function will be only a few lines of code (our solution does it in 4 lines).

```python
 1 def decryptStory():
 2     """
 3     Using the methods you created in this problem set,
 4     decrypt the story given by the function getStoryString().
 5     Once you decrypt the message, be sure to include as a comment
 6     your decryption of the story.
 7
 8     returns: string - story in plain text
 9     """
10     ### TODO
11     wordList, decrypted_text = loadWords(), getStoryString()
12     shift = findBestShift(wordList, decrypted_text)
13     return applyShift(decrypted_text, shift)
```

Correct

Test results

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CORRECT

Test 1: decryptStory: ('Zazeqzeq iadpe: sdmpgmx tqmf vqiqx pqoquf tmud')

Output:

'Nonsense words: gradual heat jewel deceit hair'

Test 2: decryptStory: ('Xyxcoxco gybnc: qbknekv rokd togov nomosd rksb')

Output:

'Nonsense words: gradual heat jewel deceit hair'

Test 3: decryptStory: ('Stsxjsxj btwix: lwfizfq mjfy ojbjq ijhjny mfnw')

Output:

'Nonsense words: gradual heat jewel deceit hair'

Test 4: decryptStory: ('Nonsense words: gradual heat jewel deceit hair')

Output:

'Nonsense words: gradual heat jewel deceit hair'

Test 5: decryptStory: ('Vmow Rxadqk ue m ykftuomx otmdmofqd odqmfqp az ftq ebgd ar m yayqzf\nfa tqxb oahqd mz uzegrruouqzfxk bxmzzqp tmow. Tq tme nqqz dqsuefqdqp\nrad oxmeeqe mf YUF fiuoq nqradq, ngf tme dqbadfqpxk zqhqd bmeeqp m\noxmee. Uf tme nqqz ftq fdmpufuaz ar ftq dqeupqzfe ar Qmef Omybge fa\nnqoayq Vmow Rxadqk rad m rqi zustfe qmot kqmd fa qpgomfq uzoayuzs\nefgpqzfe uz ftq imke, yqmze, mzp qftuoe ar tmowuzs.\n')

Output:

'Jack Florey is a mythical character created on the spur of a moment\nto help cover an insufficiently planned hack. He has been registered\nfor classes at MIT twice before, but has reportedly never passed a\nclass. It has been the tradition of the residents of East Campus to\nbecome Jack Florey for a few nights each year to educate incoming\nstudents in the ways, means, and ethics of hacking.\n'

Test 6: decryptStory: ('Tkmu Pvyboi sc k widrsmkv mrkbkmdob mbokdon yx dro czeb yp k wywoxd\ndy rovz myfob kx sxceppsmsoxdvi zvkxxon rkmu. Ro rkc loox boqscdobon\npyb mvkccoc kd WSD dgsmo lopybo, led rkc bozybdonvi xofob zkccon k\nmvkcc. Sd rkc loox dro dbknsdsyx yp dro bocsnoxdc yp Okcd Mkwzec dy\nlomywo Tkmu Pvyboi pyb k pog xsqrdc okmr iokb dy onemkdo sxmywsxq\nncdenoxdc sx dro gkic, wokxc, kxn odrsmc yp rkmusxq.\n')

Output:

'Jack Florey is a mythical character created on the spur of a moment\nto help cover an insufficiently planned hack. He has been registered\nfor classes at MIT twice before, but has reportedly never passed a\nclass. It has been the tradition of the residents of East Campus to\nbecome Jack Florey for a few nights each year to educate incoming\nstudents in the ways, means, and ethics of hacking.\n'

Test 7: decryptStory: ('Ofhp Kqtwjd nx f rdymnhfq hmfwfhyjw hwjfyji ts ymj xuzw tk f rtrjsy\nyt mjqu htajw fs nsxzkknhnjsyqd uqfssji mfhp. Mj mfx gjjs wjlnxyjwji\nktw hqfxxjx fy RNY ybnhj gjktwj, gzy mfx wjutwyjiqd sjajw ufxxji f\nhqfxx. Ny mfx gjjs ymj ywfinynts tk ymj wjxnijsyx tk Jfxy Hfruzx yt\ngjhtrj Ofhp Kqtwjd ktw f kjb snlmyx jfhm djfw yt jizhfyj nshtrnsl\nxyzijsyx ns ymj bfdx, rjfsx, fsi jymnhx tk mfhpnsl.\n')

Output:

'Jack Florey is a mythical character created on the spur of a moment\nto help cover an insufficiently planned hack. He has been registered\nfor classes at MIT twice before, but has reportedly never passed a\nclass. It has been the tradition of the residents of East Campus to\nbecome Jack Florey for a few nights each year to educate incoming\nstudents in the ways, means, and ethics of hacking.\n'

Test 8: decryptStory: ('Jack Florey is a mythical character created on the spur of a moment\nto help cover an insufficiently planned hack. He has been registered\nfor classes at MIT twice before, but has reportedly never passed a\nclass. It has been the tradition of the residents of East Campus to\nbecome Jack Florey for a few nights each year to educate incoming\nstudents in the ways, means, and ethics of hacking.\n')

Output:

'Jack Florey is a mythical character created on the spur of a moment\nto help cover an insufficiently planned hack. He has been registered\nfor classes at MIT twice before, but has reportedly never passed a\nclass. It has been the tradition of the residents of East Campus to\nbecome Jack Florey for a few nights each year to educate incoming\nstudents in the ways, means, and ethics of hacking.\n'

Test 9: decryptStory: ('Zazeqzeq iadpe: pqodqmeq eiqxx xunqdfk nuzp oaxxqsq xmlk ombq anqpuqzf naffxq meupq xurq ygdpqd mffqzfuhq ruxx dqoqubf')

Output:

'Nonsense words: decrease swell liberty bind college lazy cape obedient bottle aside life murder attentive fill receipt'

Test 10: decryptStory: ('Xyxcoxco gybnc: nombokco cgovv vslobdi lsxn myvvoqo vkji mkzo ylonsoxd lyddvo kcsno vspo webnob kddoxdsfo psvv bomoszd')

Output:

'Nonsense words: decrease swell liberty bind college lazy cape obedient bottle aside life murder attentive fill receipt'

Test 11: decryptStory: ('Stsxjsxj btwix: ijhwjfxj xbjqq qngjwyd gnsi htqqjlj qfed hfuj tgjinjsy gtyyqj fxnij qnkj rzwijw fyyjsynaj knqq wjhjnuy')

Output:

'Nonsense words: decrease swell liberty bind college lazy cape obedient bottle aside life murder attentive fill receipt'

Test 12: decryptStory: ('Nonsense words: decrease swell liberty bind college lazy cape obedient bottle aside life murder attentive fill receipt')

Output:

'Nonsense words: decrease swell liberty bind college lazy cape obedient bottle aside life murder attentive fill receipt'

Test 13: decryptStory: ('Zazeqzeq iadpe: pqqb efmud tupq yapqef nmnk rxmhad ogefay vawq tmdy mxuhq yujfgdq myazs egot rdqet qmd pqmft sdqqp nxmow xmzsgmsq xmzp uybaeeunxq zai oaybqfufad lqda euszmx pqsdqq rqmd dqebazeunxq naffay pazwqk omgfuage egnefmzoq qjfdm qjmof omsq')

Output:

'Nonsense words: deep stair hide modest baby flavor custom joke harm alive mixture among such fresh ear death greed black language land impossible now competitor zero signal degree fear responsible bottom donkey cautious substance extra exact cage'

Test 14: decryptStory: ('Xyxcoxco gybnc: nooz cdksb rsno wynocd lkli pvkfyb mecdyw tyuo rkbw kvsfo wshdebo kwyxq cemr pbocr okb nokdr qboon lvkmu vkxqekqo vkxn swzyccslvo xyg mywzodsdyb joby csqxkv noqboo pokb boczyxcslvo lyddyw nyxuoi mkedsyec celcdkxmo ohdbk ohkmd mkqo')

Output:

'Nonsense words: deep stair hide modest baby flavor custom joke harm alive mixture among such fresh ear death greed black language land impossible now competitor zero signal degree fear responsible bottom donkey cautious substance extra exact cage'

Test 15: decryptStory: ('Stsxjsxj btwix: ijju xyfnw mnij rtijxy gfgd kqfatw hzxytr otpj mfwr fqnaj rncyzwj frtsl xzhm kwjxm jfw ijfym lwjji gqfhp qfslzflj qfsi nrutxxngqj stb htrujynytw ejwt xnlsfq ijlwjj kjfw wjxutsxngqj gtyytr itspjd hfzyntzx xzgxyfshj jcywf jcfhy hflj')

Output:

```
'Nonsense words: deep stair hide modest baby flavor custom joke harm alive mixture among such fresh
ear death greed black language land impossible now competitor zero signal degree fear responsible
bottom donkey cautious substance extra exact cage'
```

Test 16: decryptStory: ('Nonsense words: deep stair hide modest baby flavor custom joke harm alive mixture among such fresh ear death greed black language land impossible now competitor zero signal degree fear responsible bottom donkey cautious substance extra exact cage')

Output:

```
'Nonsense words: deep stair hide modest baby flavor custom joke harm alive mixture among such fresh
ear death greed black language land impossible now competitor zero signal degree fear responsible
bottom donkey cautious substance extra exact cage'
```

Hide output

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