

```
1  from helpers import get_words, save_counts
2
3
4  def main():
5      counts = {}
6      words = get_words("address.txt")
7
8      for word in words:
9          if word in counts:
10             counts[word] += 1
11          else:
12             counts[word] = 1
13
14      save_counts(counts)
15
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17  main()
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3
4  def main():
5      counts = {}
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7      words = [word.lower() for word in words if len(word) > 4]
8
9      for word in words:
10         if word in counts:
11             counts[word] += 1
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4  def main():
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6      words = get_words("address.txt")
7      words = [word.lower() for word in words if len(word) > 4]
8
9      counts = {word: words.count(word) for word in words}
10
11     save_counts(counts)
12
13
14  main()
```

```
1 import csv
2 import re
3
4
5 def get_words(filename):
6     with open(filename, "r") as f:
7         contents = f.read()
8
9         contents = " ".join(contents.split())
10        contents = re.sub(r"^[^\w\ - ]", "", contents)
11        contents = re.sub(r"\ -\ -", " ", contents)
12        return contents.split()
13
14
15 def save_counts(counts):
16     with open("counts.csv", "w") as f:
17         writer = csv.writer(f)
18         writer.writerow(["Word", "Count"])
19         for word, count in sorted(counts.items(), key=lambda x: x[1], reverse=True):
20             writer.writerow([word, count])
```

1 We observe today not a victory of party but a celebration of freedom--symbolizing an end as well as a beginning--signifying renewal as well as change. For I have sworn before you and Almighty God the same solemn oath our forbears prescribed nearly a century and three-quarters ago.

2

3 The world is very different now. For man holds in his mortal hands the power to abolish all forms of human poverty and all forms of human life. And yet the same revolutionary beliefs for which our forebears fought are still at issue around the globe--the belief that the rights of man come not from the generosity of the state but from the hand of God.

4

5 We dare not forget today that we are the heirs of that first revolution. Let the word go forth from this time and place, to friend and foe alike, that the torch has been passed to a new generation of Americans--born in this century, tempered by war, disciplined by a hard and bitter peace, proud of our ancient heritage--and unwilling to witness or permit the slow undoing of those human rights to which this nation has always been committed, and to which we are committed today at home and around the world.

6

7 Let every nation know, whether it wishes us well or ill, that we shall pay any price, bear any burden, meet any hardship, support any friend, oppose any foe to assure the survival and the success of liberty.

8

9 This much we pledge--and more.

10

11 To those old allies whose cultural and spiritual origins we share, we pledge the loyalty of faithful friends. United there is little we cannot do in a host of cooperative ventures. Divided there is little we can do--for we dare not meet a powerful challenge at odds and split asunder.

12

13 To those new states whom we welcome to the ranks of the free, we pledge our word that one form of colonial control shall not have passed away merely to be replaced by a far more iron tyranny. We shall not always expect to find them supporting our view. But we shall always hope to find them strongly supporting their own freedom--and to remember that, in the past, those who foolishly sought power by riding the back of the tiger ended up inside.

14

15 To those people in the huts and villages of half the globe struggling to break the bonds of mass misery, we pledge our best efforts to help them help themselves, for whatever period is required--not because the communists may be doing it, not because we seek their votes, but because it is right. If a free society cannot help the many who are poor, it cannot save the few who are rich.

16

17 To our sister republics south of our border, we offer a special pledge--to convert our good words into good deeds--in a new alliance for progress--to assist free men and free governments in casting off the chains of poverty. But this peaceful revolution of hope cannot become the prey of hostile powers. Let all our neighbors know that we shall join with them to oppose aggression or subversion anywhere in the Americas. And let every other power know that this Hemisphere intends to remain the master of its own house.

18

19 To that world assembly of sovereign states, the United Nations, our last best hope in an age where the instruments of war have far outpaced the instruments of peace, we renew our pledge of support--to prevent it from becoming merely a forum for invective--to strengthen its shield of the new and the weak--and to enlarge the area in which its writ may

run.

20

21 Finally, to those nations who would make themselves our adversary, we offer not a pledge but a request: that both sides begin anew the quest for peace, before the dark powers of destruction unleashed by science engulf all humanity in planned or accidental self-destruction.

22

23 We dare not tempt them with weakness. For only when our arms are sufficient beyond doubt can we be certain beyond doubt that they will never be employed.

24

25 But neither can two great and powerful groups of nations take comfort from our present course--both sides overburdened by the cost of modern weapons, both rightly alarmed by the steady spread of the deadly atom, yet both racing to alter that uncertain balance of terror that stays the hand of mankind's final war.

26

27 So let us begin anew--remembering on both sides that civility is not a sign of weakness, and sincerity is always subject to proof. Let us never negotiate out of fear. But let us never fear to negotiate.

28

29 Let both sides explore what problems unite us instead of belaboring those problems which divide us.

30

31 Let both sides, for the first time, formulate serious and precise proposals for the inspection and control of arms--and bring the absolute power to destroy other nations under the absolute control of all nations.

32

33 Let both sides seek to invoke the wonders of science instead of its terrors. Together let us explore the stars, conquer the deserts, eradicate disease, tap the ocean depths and encourage the arts and commerce.

34

35 Let both sides unite to heed in all corners of the earth the command of Isaiah--to "undo the heavy burdens . . . (and) let the oppressed go free."

36

37 And if a beachhead of cooperation may push back the jungle of suspicion, let both sides join in creating a new endeavor, not a new balance of power, but a new world of law, where the strong are just and the weak secure and the peace preserved.

38

39 All this will not be finished in the first one hundred days. Nor will it be finished in the first one thousand days, nor in the life of this Administration, nor even perhaps in our lifetime on this planet. But let us begin.

40

41 In your hands, my fellow citizens, more than mine, will rest the final success or failure of our course. Since this country was founded, each generation of Americans has been summoned to give testimony to its national loyalty. The graves of young Americans who answered the call to service surround the globe.

42

43 Now the trumpet summons us again--not as a call to bear arms, though arms we need--not as a call to battle, though embattled we are-- but a call to bear the burden of a long twilight struggle, year in and year out, "rejoicing in hope, patient in tribulation"--a struggle against the common enemies of man: tyranny, poverty, disease and war itself.

44

45 Can we forge against these enemies a grand and global alliance, North and South, East and West, that can assure a more fruitful life for all mankind? Will you join in that historic effort?

46

47 In the long history of the world, only a few generations have been granted the role of defending freedom in its hour of maximum danger. I do not shrink from this responsibility--I welcome it. I do not believe that any of us would exchange places with any other people or any other generation. The energy, the faith, the devotion which we bring to this endeavor will light our country and all who serve it--and the glow from that fire can truly light the world.

48

49 And so, my fellow Americans: ask not what your country can do for you--ask what you can do for your country.

50

51 My fellow citizens of the world: ask not what America will do for you, but what together we can do for the freedom of man.

52

53 Finally, whether you are citizens of America or citizens of the world, ask of us here the same high standards of strength and sacrifice which we ask of you. With a good conscience our only sure reward, with history the final judge of our deeds, let us go forth to lead the land we love, asking His blessing and His help, but knowing that here on earth God's work must truly be our own.

1	Word,Count
2	world,8
3	sides,8
4	which,7
5	those,7
6	pledge,7
7	power,5
8	shall,5
9	nations,5
10	freedom,4
11	first,4
12	americans,4
13	peace,4
14	always,4
15	cannot,4
16	other,4
17	citizens,4
18	country,4
19	today,3
20	human,3
21	poverty,3
22	globe,3
23	generation,3
24	control,3
25	because,3
26	begin,3
27	never,3
28	final,3
29	fellow,3
30	before,2
31	century,2
32	hands,2
33	forms,2
34	around,2
35	rights,2
36	revolution,2
37	forth,2
38	friend,2
39	passed,2
40	nation,2
41	committed,2
42	every,2

43 whether,2
44 burden,2
45 support,2
46 oppose,2
47 assure,2
48 success,2
49 loyalty,2
50 united,2
51 there,2
52 little,2
53 powerful,2
54 states,2
55 welcome,2
56 merely,2
57 tyranny,2
58 supporting,2
59 their,2
60 people,2
61 themselves,2
62 south,2
63 offer,2
64 deeds,2
65 alliance,2
66 powers,2
67 where,2
68 instruments,2
69 finally,2
70 would,2
71 science,2
72 weakness,2
73 beyond,2
74 doubt,2
75 course,2
76 balance,2
77 negotiate,2
78 explore,2
79 problems,2
80 unite,2
81 instead,2
82 bring,2
83 absolute,2
84 together,2

85	disease,2
86	earth,2
87	endeavor,2
88	finished,2
89	though,2
90	struggle,2
91	against,2
92	enemies,2
93	history,2
94	light,2
95	truly,2
96	america,2
97	observe,1
98	victory,1
99	party,1
100	celebration,1
101	symbolizing,1
102	beginning,1
103	signifying,1
104	renewal,1
105	change,1
106	sworn,1
107	almighty,1
108	solemn,1
109	forbears,1
110	prescribed,1
111	nearly,1
112	three-quarters,1
113	different,1
114	holds,1
115	mortal,1
116	abolish,1
117	revolutionary,1
118	beliefs,1
119	forebears,1
120	fought,1
121	still,1
122	issue,1
123	belief,1
124	generosity,1
125	state,1
126	forget,1

127	heirs,1
128	place,1
129	alike,1
130	torch,1
131	tempered,1
132	disciplined,1
133	bitter,1
134	proud,1
135	ancient,1
136	heritage,1
137	unwilling,1
138	witness,1
139	permit,1
140	undoing,1
141	wishes,1
142	price,1
143	hardship,1
144	survival,1
145	liberty,1
146	allies,1
147	whose,1
148	cultural,1
149	spiritual,1
150	origins,1
151	share,1
152	faithful,1
153	friends,1
154	cooperative,1
155	ventures,1
156	divided,1
157	challenge,1
158	split,1
159	asunder,1
160	ranks,1
161	colonial,1
162	replaced,1
163	expect,1
164	strongly,1
165	remember,1
166	foolishly,1
167	sought,1
168	riding,1

169	tiger,1
170	ended,1
171	inside,1
172	villages,1
173	struggling,1
174	break,1
175	bonds,1
176	misery,1
177	efforts,1
178	whatever,1
179	period,1
180	required,1
181	communists,1
182	doing,1
183	votes,1
184	right,1
185	society,1
186	sister,1
187	republics,1
188	border,1
189	special,1
190	convert,1
191	words,1
192	progress,1
193	assist,1
194	governments,1
195	casting,1
196	chains,1
197	peaceful,1
198	become,1
199	hostile,1
200	neighbors,1
201	aggression,1
202	subversion,1
203	anywhere,1
204	americas,1
205	hemisphere,1
206	intends,1
207	remain,1
208	master,1
209	house,1
210	assembly,1

211	sovereign,1
212	outpaced,1
213	renew,1
214	prevent,1
215	becoming,1
216	forum,1
217	invective,1
218	strengthen,1
219	shield,1
220	enlarge,1
221	adversary,1
222	request,1
223	quest,1
224	destruction,1
225	unleashed,1
226	engulf,1
227	humanity,1
228	planned,1
229	accidental,1
230	self-destruction,1
231	tempt,1
232	sufficient,1
233	certain,1
234	employed,1
235	neither,1
236	great,1
237	groups,1
238	comfort,1
239	present,1
240	overburdened,1
241	modern,1
242	weapons,1
243	rightly,1
244	alarmed,1
245	steady,1
246	spread,1
247	deadly,1
248	racing,1
249	alter,1
250	uncertain,1
251	terror,1
252	stays,1

253	mankinds,1
254	remembering,1
255	civility,1
256	sincerity,1
257	subject,1
258	proof,1
259	belaboring,1
260	divide,1
261	formulate,1
262	serious,1
263	precise,1
264	proposals,1
265	inspection,1
266	destroy,1
267	under,1
268	invoke,1
269	wonders,1
270	terrors,1
271	stars,1
272	conquer,1
273	deserts,1
274	eradicate,1
275	ocean,1
276	depths,1
277	encourage,1
278	commerce,1
279	corners,1
280	command,1
281	isaiah,1
282	heavy,1
283	burdens,1
284	oppressed,1
285	beachhead,1
286	cooperation,1
287	jungle,1
288	suspicion,1
289	creating,1
290	strong,1
291	secure,1
292	preserved,1
293	hundred,1
294	thousand,1

295 administration,1
296 perhaps,1
297 lifetime,1
298 planet,1
299 failure,1
300 since,1
301 founded,1
302 summoned,1
303 testimony,1
304 national,1
305 graves,1
306 young,1
307 answered,1
308 service,1
309 surround,1
310 trumpet,1
311 summons,1
312 again,1
313 battle,1
314 embattled,1
315 twilight,1
316 rejoicing,1
317 patient,1
318 tribulation,1
319 common,1
320 itself,1
321 forge,1
322 these,1
323 grand,1
324 global,1
325 north,1
326 fruitful,1
327 mankind,1
328 historic,1
329 effort,1
330 generations,1
331 granted,1
332 defending,1
333 maximum,1
334 danger,1
335 shrink,1
336 responsibility,1

337	believe,1
338	exchange,1
339	places,1
340	energy,1
341	faith,1
342	devotion,1
343	serve,1
344	standards,1
345	strength,1
346	sacrifice,1
347	conscience,1
348	reward,1
349	judge,1
350	asking,1
351	blessing,1
352	knowing,1