

Basic Cryptanalysis

Task

Given a piece of text encoded with a simple monoalphabetic substitution cipher, use basic cryptanalytic techniques to recover the original plain text. You will be provided with a special dictionary file that you can read from *dictionary.lst*. It will consist of one word per line.

Input Format

The input ciphertext will consist of a string of space separated enciphered words from the provided *dictionary.lst* file that is accessible to your code. The dictionary contains technical jargon and may not be entirely representative of English language plain text, so frequency analysis techniques may not be entirely helpful.

Constraints

$$1 \leq \text{words in dictionary.lst} \leq 1700$$
$$1 \leq \text{words in input} \leq 100$$

Output Format

Output the decrypted plain text. The output will be a string of space separated words from the provided dictionary. You'll be scored based on how accurately you recover the original text.

Sample Input

```
lhpohe gvjhe ztytwojmmtel lgsfcgver segpsltjyl vftstelc djfl rml catroel jscvjqjyfo mjlesl lcjmmfge egvj gsfyhtyq sjfgver csfaotyq lfxtyq
gjjwplesl lxlm dxcel mpyctyq ztytwojmmtelel mfcgv spres mjim psgvty bfml ofle mjlc dtc tygfycfctjy dfsyl zpygvel csfao yealqsjpml atyl
lgsjql qyfsotelc fseyf ojlllel gjzmselltyq wpyhtelc zpltgl weygel afyher rstnesl aefleo rtyhes mvflel yphe rstnes qojder dtwwer lojml
mfcgvel reocfl djzder djpygtyq gstmmeafsel reg cpdel qspyqe mflctel csflvtyq vfcl avfghtyq vftsdfool mzer rsjye wijol psol mplvtyq
catroel mvfge lgseey leqzeycer wjseqsjpyrer lmjtoes msjwtoel docl djpyger cjpstlcl goefy gojddesl mjrl qjddoe gjy gpdyql lyftotyq
rjayofjr swgl vjle atrqec gjzmfges frfl qotcgver gspzd zftodjzdl lyfsh
```

Sample Output

```
skulker choke minifloppies scratched recursions hairiest boas dps twiddles orthogonal posers stoppage echo cranking roached
trawling saying confusers sysop bytes punting minifloppieses patch ruder pop urchin zaps lase post bit incantation bams munches
trawl newsgroups wins scrogs gnarliest arena losses compressing funkiest musics fences wanked drivers weasel dinker phases nuke
driver globed biffed slops patches deltas bombed bouncing cripplewares dec tubes grunge pasties trashing hats whacking hairballs
pmed drone fools urls pushing twiddle phage screen segmented foregrounded spoiler profiles blits bounced tourists clean clobbers
pods gobble con cubings snailing download rfcs hose widget compacter adas glitched crumb mailbombs snark
```