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

- $1 \leq words$ in dictionary.lst ≤ 1700
- $1 \leq words$ in input ≤ 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

Ihpohes gvjhe ztytwojmmtel Igsfcgver segpsltjyl vftstelc djfl rml catrroel jscvjqjyfo mjlesl Icjmmfqe egvj gsfyhtyq sjfgver csfaotyq Ifxtyq gjywplesl Ixljm dxcel mpyctyq ztytwojmmtelel mfcgv spres mjm psgvty bfml ofle mjlc dtc tygfycfctjy dfsyl zpygvel csfao yealqsjpml atyl Igsjql qyfsotelc fseyf ojllel gjzmselltyq wpyhtelc zpltgl weygel afyher rstnesl aefleo rtyhes mvflel yphe rstnes qojder dtwwer lojml mfcgvel reocfl djzder djpygtyq gstmmoeafsel reg cpdel qspyqe mflctel csflvtyq vfcl avfghtyq vftsdfool mzer rsjye wjjol psol mplvtyq catrroe mvfqe Igseey Ieqzeycer wjseqsjpyrer Imjtoes msjwtoel docl djpyger cjpstlcl goefy gojddesl mjrl qjddoe gjy gpdtyql lyftotyq rjayojfr swgl vjle atrqec gjzmfgces 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 barns 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 blts bounced tourists clean clobbers pods gobble con cubings snailing download rfcs hose widget compacter adas glitched crumb mailbombs snark