The ARPAbet is a phonetic transcription code developed as part of the Defense Advanced Research Projects Agency's Speech Understanding Project in the 1970's; see https://en.wikipedia.org/wiki/Arpabet. Each phoneme of North American English is represented by one or two letters (with digits appended to indicate stress). The Carnegie Mellon Pronunciation Dictionary gives a pronunciation in terms of ARPAbet symbols for a large collection of words. The dictionary is described at http://www.speech.cs.cmu.edu/cgi bin/cmudict. The dictionary file consists of lines of the form ABUNDANT AHO B AH 1 N D AHO N T

The rest string is the word, which is followed by one or more phonemes (or phones) that describe the pronunciation of the word. There are 39 phonemes occurring in North American English that are used in the dictionary. Write a program that reads a file containing ARPAbet symbols and produces an English translation. For example, if the input contains the following text (the line breaks are not significant):

IH1T W AA1Z P AE1S T W AH1N AH0 K L AA1K W EH1N P IYO EH1R L EH1F T HH IH1Z F R EH1N D P IH1R IYO AHO D IH1T W AA1Z AHO K L AW1D L AHO S K AA1M AHO N AO1 R DH ERO N K AA1M AHO S AH1M ERO N AY1T P IH1R IYO AHO D P IYO EH1R T UH1K AE1N OW1P AHO N K AE1B IHO N T EH1N D IHO NG T UW1D R AY1V S T R EY1T HH OW1M PIH1RIYO AHO DBAH1T DHAHO NIH1RERO HHIY1DRUW1TUW1DHAHO HH AW1S DH AH0 M AO1R HH IY1F EH1L T DH AH0 IH0 M P AO2 S IH0 B IH1L IH0 T IYO AH1V G OW1IHO NG TUW1S LIY1P AA1N S AH1CH AHO N AY1T P IH1R IYO AHO D IH1T W AA1Z L AY1T IH0 N AH1F T UW1S IY1AH0 L AO1NG W EY1IH0 N DH AH0 D IH0 Z ER1T IHO D S T R IY1T AHO N D IH1T S IY1M D M AO1R L AY1K M AO1R N IHO NG AO1 R IY1V N IHO NG DH AE1N N AY1T P IH1R IYO AHO D B AH1T HH IY1IHO M IY1D IYO AHO T L IYO R IHO K AO1L D HH IH1Z P R AA1M AHO S T UW1P R IH1N S AE1N D R UW0 N AA1T T UW1G OW1DH EH1R P IH1R IYO AHO D DH EH1N K AA1M AHO AE1Z HH AE1 P AHO N Z T UW1P IY1P AHO L AH1V W IY1K K EH1R IHO K T ERO K AA1M AHO HH IY1 D IHO Z AY1ERO D S OW1P AE1SH AHO N AHO T L IYO W AH1N S M AO1R T UW1EHO N TH OY1DH AE1T D IH2 S IHO P EY1SH AHO N HH IY1W AA1Z S OW1AHO K AH1S T AHO M D T UW1 DH AE 1 T HH I Y 1 D I H 2 S AY 1 D I H 0 D T UW1 G OW 1 P I H 1 R I Y 0 A H 0 D D H AHO TH AO1T IHO M IY1D IYO AHO T L IYO AHO K ER1D T UW1HH IH1M DH AE1T HH IH 1Z P R AA 1M AHO S T UW1 P R IH 1N S AE 1N D R UW0 W AA 1Z AH 1V N OW1 AHO K AW1N TK AA1M AH0 B IH0 K AO1Z B IH0 F AO1R HH IY1G EY1V IH1T HH IY1HH AE1D AOO L R EH1D IYO P R AA1M AHO S T P R IH1N S AE1N AHO T OW2 L T UW1K AH1M T UW1HH IH1Z G AE1DH ERO IHO NG S EH1M IYO K OW1L AHO N K W OW1T B IHO S AY1 DZKAA1MAHOAH1NKWOW1TTHAO1THHIY1KAA1MAHOKWOW1TAO1LSAH1 CH AHO P AA1S T R AHO F IYO W ER1D Z AH1V AA1N ERO AHO P AA1S T R AHO F IYO AA1 R K AHO N V EH1N SH AHO N AHO L TH IH1NG Z W IH1DH N OW1D EH1F AHO N AHO T M IY1N IHO NG K AA1M AHO AHO S P EH1SH L IYO IH1F W AH1N K AHO N S IH1D ERO Z DH AE1T B AY1T AH0 M AA1R OW2 W AH1N M EY1B IY1D EH1D K AA1M AH0 AO1R S AH1M TH IH0 NG S OW1EH2 K S T R AH0 AO1R D AH0 N EH2 R IY0 M EY1HH AE1P AH0 N T UW1 W AH 1 N DH AE 1 T AA 1 N E RO AH O N D D I HO S AA 1 N E RO W I H 1 L B I Y 1 AO 1 L DH AHO S EY1M EH2 K S K L AHO M EY1SH AHO N AH1N K W OW1T

then one translation of this back to English is:

It was past one o'clock when Pierre left his friend. It was a cloudless, northern, summer night. Pierre took an open cab intending to drive straight home. But the nearer he drew to the house the more he felt the impossibility of going to sleep on such a night. It was light enough to see a long way in the deserted street and it seemed more like morning or evening than night. But he immediately recalled his promise to Prince Andrew not to go there. Then, as happens to people of weak character, he desired so passionately once more to enjoy that dissipation he was so accustomed to that he decided to go. The thought immediately occurred to him that his promise to Prince Andrew was of no account, because before he gave it he had already promised Prince Anatole to come to his gathering; "besides," though he, "all such 'words of honor' are conventional things with no definite meaning, especially if one considers that by tomorrow one may be dead, or something so extraordinary may happen to one that honor and dishonor will be all the same!" (From War and Peace, by Leo Tolstoy.)

There may be more than one possible translation, in which case your program need only produce one.