

ITP20003 Java Programming

Lab 2. Play String

Teams for Lab 2

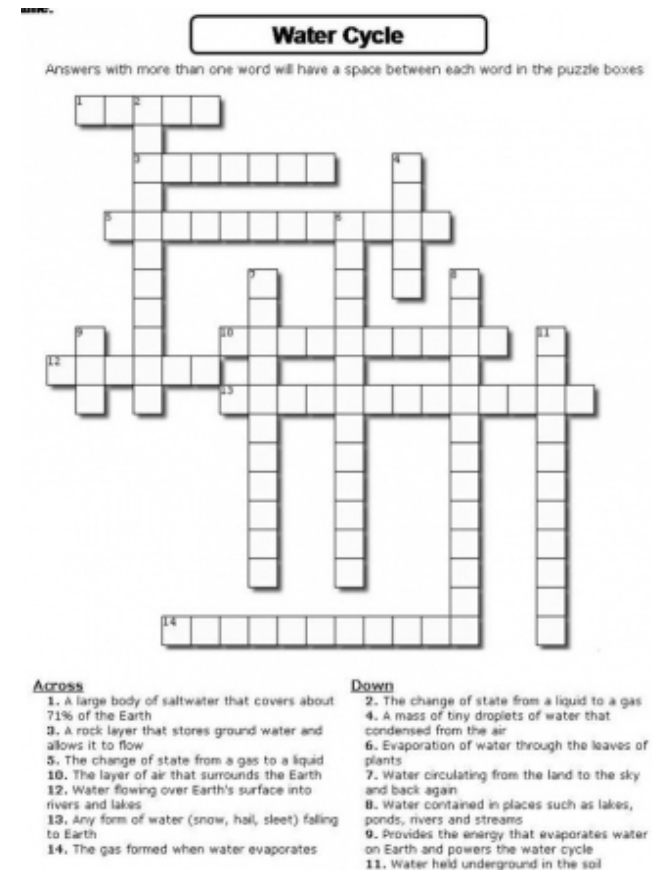
Team1	박혜빈	심충일
Team2	윤석규	김아론
Team3	이종원	이한빈
Team4	김소은	황보효정
Team5	김지민	이혁재
Team6	전혜원	Wongani
Team7	유채우	박수현
Team8	백주열	양예진
Team9	김시온	김재윤
Team10	김예균	이지행

Lab 2

- Java String Basics
- Two examples
 - Crossword puzzle helper
 - Bible verse getter
- Two Missions: M3 and M4 (50 min)
 - work as a team

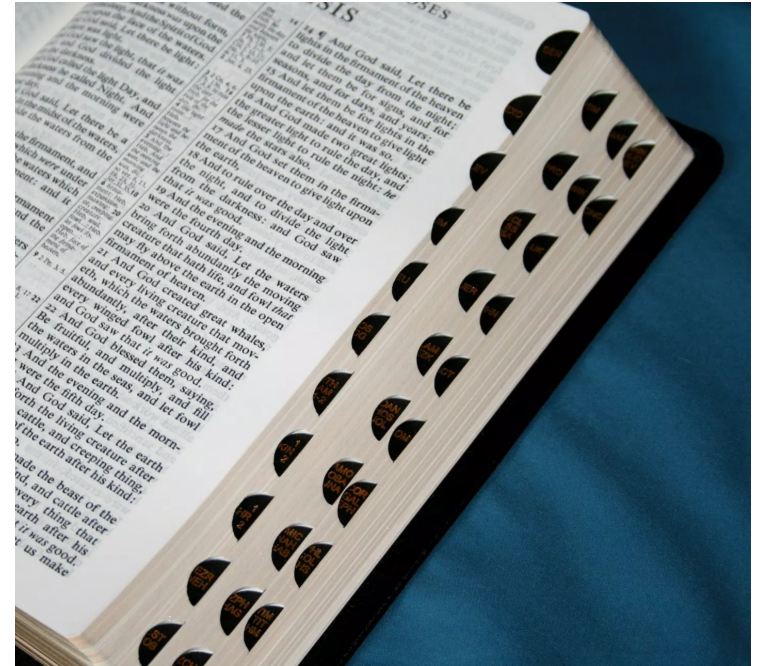
Crossword Puzzle Helper

Help a person find an answer by checking all words each of which contains all given clues by searching through a word set



Bible Verse Getter

- Return the Bible verse when the user enters a book name, a chapter number and a verse number



M3. Did You Mean?

- For a strange input word suspected as a typo, Google finds words that are *structurally close* to the input word, and then returns a suggestion to the user by saying “*Did you mean ...?*”
- Write `DidYouMean.java` which finds out all words structurally close to a given input word
 - Two words w_1 and w_2 are structurally close if w_1 becomes identical to w_2 in a case-insensitive way once one character in w_1 is replaced with another alphabet. e.g., “`recruet`” ~ “`recruit`”
 - Receive an input word as a command line argument, and print out the result to the console (i.e., standard output)
 - An input word consists only of upper and lower case alphabets
 - Use `wordset.txt` which was used by `CrosswordHelper`

M4. Bible Verse Search

- Write VerseSearch.java that searches Bible verses according to given keywords
 - Use NIV.txt which was used by VerseGetter
 - Receive one or multiple keywords by command-line arguments
- A keyword has a string and it can be positive or negative
 - A positive keyword consists of only alphabets including lower- and upper-cases. It asserts that a target verse must contain the keyword
 - A negative keyword starts with '-' and an alphabet string follow. It asserts that the string must not be contained in the verse.
- VerseSearch should print all verses each of which contains all given positive keywords while no negative keywords at the same time
 - A keyword match should be done in a case-insensitive way