**CEng201-Object Oriented Programming**

**Homework 2**

**Due date: December 10th, 23:55 via Uzem. No late submission**

**Q1) (30 pts)** Assume that I have several books in my library. All of the books have the same number of pages and each of the pages consist of 5 random words. Here is the list of possible words;

|  |  |
| --- | --- |
| **ID** | **Word** |
| 1 | AA |
| 2 | BB |
| 3 | CC |
| 4 | DD |
| 5 | EE |

Create a three dimensional array with the name library and generate the books with random words on pages. Get the number of books and number of pages from the user. Finally find the books that cover the same word on the same page and in the same order.

Please validate the number of pages and books and return appropriate **error messages** (not run time exceptions**)**.

**Sample Run 1:**

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| --- |
| How many books do you have?  2  How many pages do they have?  3  Here are the books;  Book 1:  Page 1: AA BB DD DD EE  Page 2: BB CC CC CC CC  Page 3: AA CC DD EE EE  Book 2:  Page 1: AA CC DD CC AA  Page 2: EE AA AA BB CC  Page 3: BB BB DD AA AA  “AA” is the 1 th word on the Page 1 of the books 1 and 2.  “DD” is the 3 th word on the Page 1 of the books 1 and 2.  “CC” is the 5 th word on the Page 2 of the books 1 and 2.  “DD” is the 3 th word on the Page 3 of the books 1 and 2. |

**Sample Run 2:**

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| How many books do you have?  2  How many pages do they have?  3  Here are the books  Book 1:  Page 1: AA BB DD DD AA  Page 2: BB CC CC CC CC  Page 3: AA CC DD AA AA  Book 2:  Page 1: EE EE EE EE EE  Page 2: EE EE EE EE EE  Page 3: EE EE EE EE EE  Books have nothing in common. |