

Week 09 – Homework

1.1 Date Array – Load & Save

Write a small program with 2 features (the program should create menu options to allow user to choose one of them).

1. User enters an array of dates from keyboard. The program will save the array to a binary file.
2. User loads an array of dates from a binary file. The program will find the newest date and output to console.

Format of input.bin:

- 1st number: n, number of elements in the array.
- Next 3 * n numbers: elements in the array.

1.2 Copy file

Use command prompt argument and binary file IO techniques to create a MYCOPYFILE program.

User will enter:

```
MYCOPYFILE -s path_of_source_file -d path_of_destination
```

The destination file will have same name as the source file.

For example:

```
MYCOPYFILE -s D:/film.mkv -d D:/Level1/Level2/Level3
```

1.3 Split file

Use command prompt argument and binary file IO techniques to create a MYSPLITFILE program.

User will enter:

```
MYSPLITFILE -s path_of_source_file -d path_of_destination -numpart x
```

x is a positive integer number, number of splitted parts.

OR

```
MYSPLITFILE -s path_of_source_file -d path_of_destination -sizeapart x
```

y is a positive integer number (in bytes), size of a splitted part.

For example:

```
MYSPLITFILE -s D:/film.mkv -d D:/Level1/Level2/Level3 -numpart 3
```

OR

```
MYSPLITFILE -s D:/film.mkv -d D:/Level1/Level2/Level3 -sizeapart 1000000
```

Names of splitted parts are: film.mkv.part01, film.mkv.part02, film.mkv.part03...

1.4 Merge file

Use command prompt argument and binary file IO techniques to create a MYMERGEFILE program.

User will enter:

```
MYMERGEFILE -s path_of_part01 -d path_of_destination
```

The program will find all *.part01, *.part02, *.part03... files and merge into a single file.

The program will print errors if there is any part does not exist.

For example:

```
MYMERGEFILE -s D:/Level1/Level2/Level3/film.mkv.part01 -d D:/NewLevel
```

1.5 BMP

Draw on screen and Save England flag using BMP file.

