Assignment 3

1 GitHub repository link

You should be able to click a link right here, otherwise the link will be displayed just below, for you to copy:

https://github.com/andreaswachs/BDSA2021−AS03

2 C# Part

Data structures:

```
IEnumerable<int >[] xs;

int [] ys;
```

2.1 Q1: Flatten the numbers in xs

Answer:

```
xs.SelectMany(items => items).Select(item => item);
```

2.2 Q2: Select numbers in ys which are divisible by 7 and greater than 42

Answer:

```
ys.Where(n => n % 7 == 0 && n > 42).Select(n => n)
```

2.3 Q3: Select numbers in ys which are *leap years*

Answer:

```
ys.Where(n => n > 1582 && (n % 400 == 0 || n % 4 == 0) && n % 100 != 0)
```