

Inputs

- Number of objects, type of object and values for each object

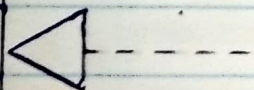
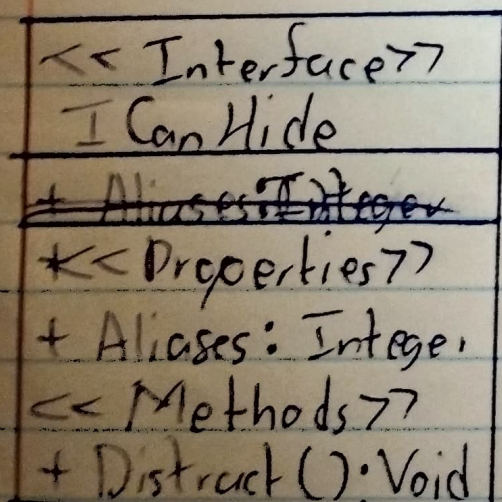
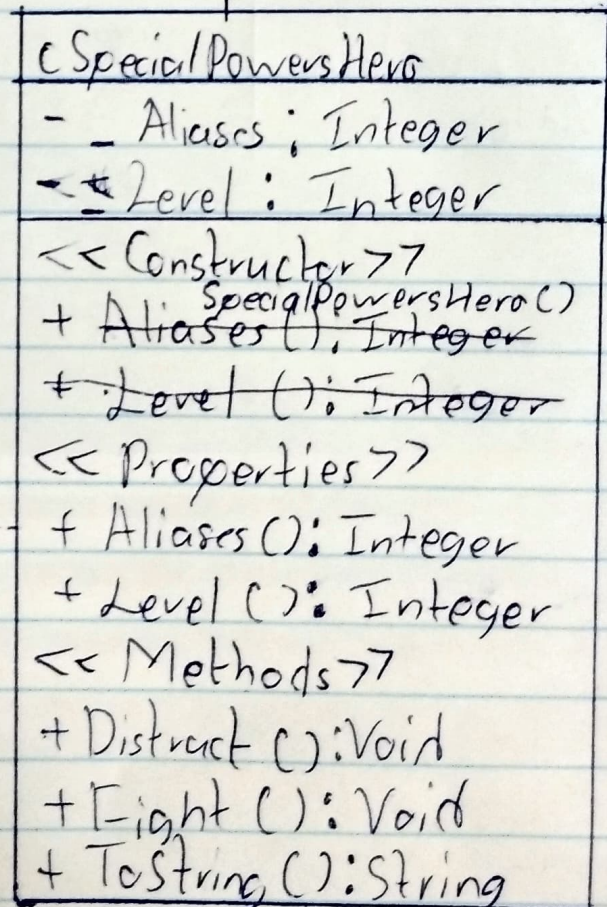
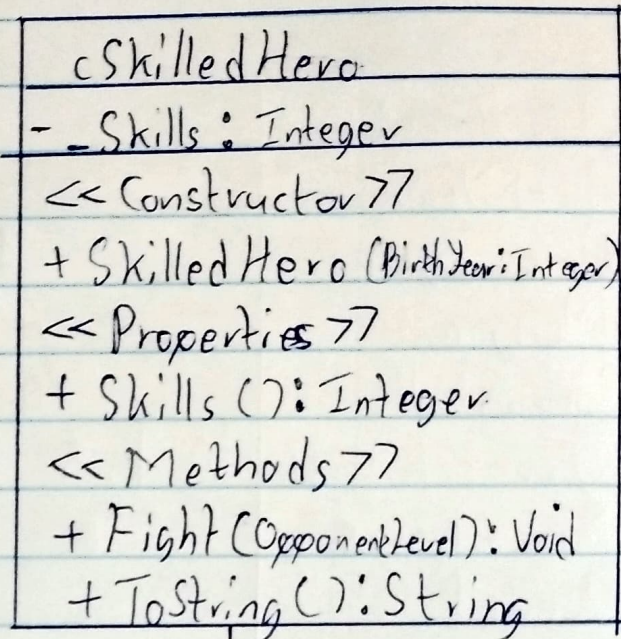
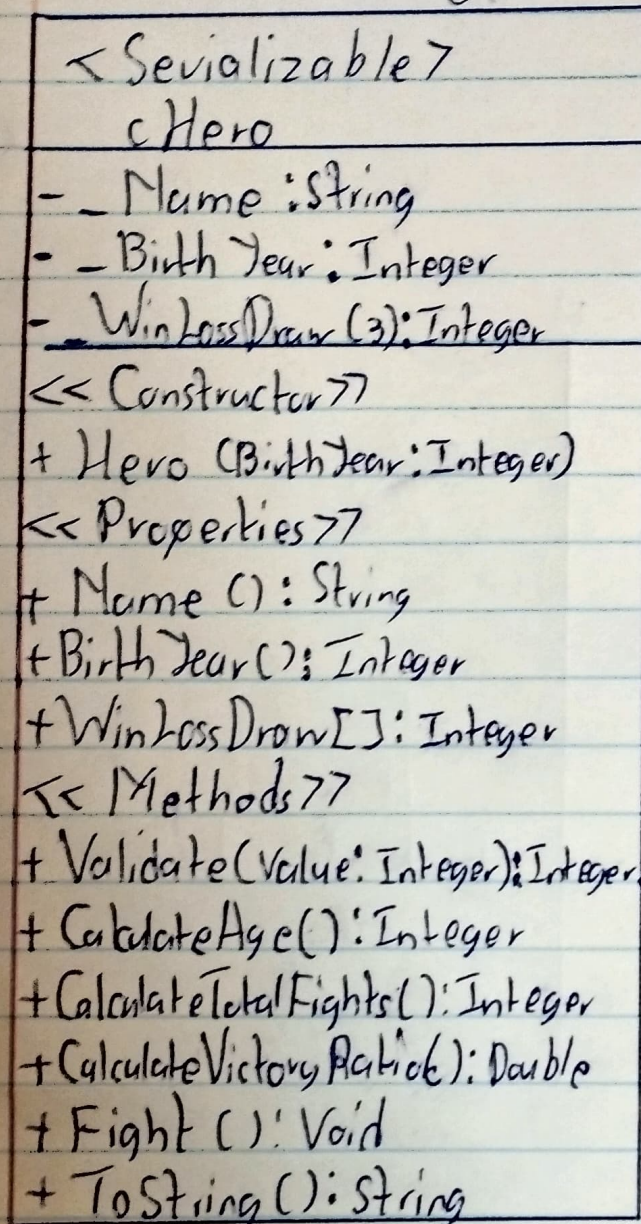
Outputs

- Name, Age, Fight statistics and percentage of victorious for each hero
- Details for special powers hero with even number of Aliases - *

Variables

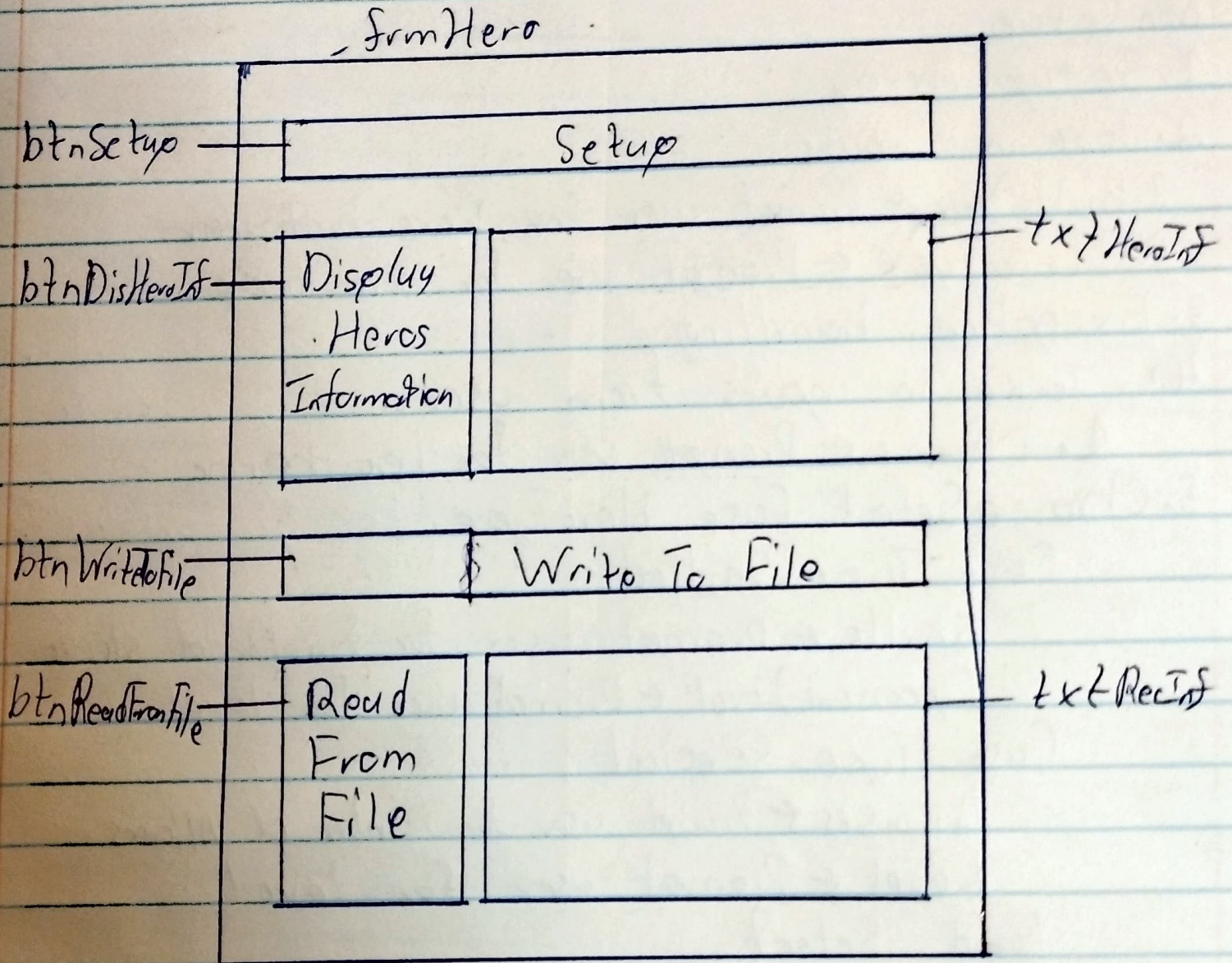
- Heroes - cHero
- Skilled Hero - cSkilledHero
- Special Hero - cSpecialPowersHero
- Hero Type - Integer
- FS - FileStream
- BF - BinaryFormatter

UML2



Events	Actions
btnSetup is clicked	<ul style="list-style-type: none"> • Resize Arrays • Take in inputs from user • Store types of objects in hero object array.
btnDisHeroInf is clicked	<ul style="list-style-type: none"> • Display information for each hero in text box.
btnWriteToFile is clicked	<ul style="list-style-type: none"> • Write information to file
btnReadFromFile is clicked	<ul style="list-style-type: none"> • Read information from file • Display information for special powers hero.

Interface



Algorithm

btnSetup

1. Setup Array

2. Take in inputs

1. BirthYear \leftarrow Prompt user for hero birth year

2. HeroType \leftarrow Prompt user for hero type

3. Exception handling

4. Take in inputs from user

1. Name \leftarrow Prompt user for hero name

5. ~~Choice~~ Select Case HeroType

Case Type.Skilled

Skills \leftarrow Prompt user for number of skills

OpponentLevel \leftarrow Prompt user for level

Case Type.Special

Aliases \leftarrow Prompt user for number of Aliases

Level \leftarrow Prompt user for level

End Select

btnDisHeroInf

1. Display information for each hero

1. txtHeroInf.Text \leftarrow Hero(Index).ToString

btnWriteToFile

1. Write Information To File

btnReadFromFile

1. Read From File

2. Display information from file to text box.

Test Data

Num Heros:	2		
Birth Year:	2000		1999
Hero Type	1		2
Name	H1		H2
Num Skills	10		
Opponent Level	10	5	15
Num Aliases	B		5
Level	11		
Opponent Level	11		5 6
Age	23		24
Win Draw Loss	1, 0, 2		2, 0, 1
Victorious	33.33%		66.67%