**Baranyai Dominik**

**JH0M5P**

**4.Házi feladat:**

int counter := 0

**forall** t **in** \_trophies **loop**

**if** t.species() == „lion” **then**

**if** t.sex() == MALE **then**

counter := counter + 1

**endif**

**endif**

**endloop**

return counter

\_name = n

\_age = a

\_trophies.push\_back(t)

return \_trophies

return \_age

return \_name

|  |
| --- |
| **Hunter** |
| -\_name : string  -\_age : int  -\_trophies : vector<Trophy\*> |
| +Hunter(n : string, a : age)  +Males() : int  +AddTrophy(Trophy\* t) : void  +name() : string  +age() : int  +trophies() : vector<Trophy\*> |

\_trophies

|  |
| --- |
| **Trophy** |
| # \_species : string  # date : string  # location : string  # weight : int |
| +Trophy(s,l,d : string, w : int)  +species() : string |

extends

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ElephantTrophy** |  | **RhinoTrophy** |  | **LionTrophy** |
| -tusk\_length1 : int  -tusk\_length2 : int |  | -horn\_weight : int |  | -gender : LionGender |
| +ElephantTrophy(s,l,d : string, w,t1,t2 : int)  +tusk1() : int  +tusk2() : int |  | +RhinoTrophy(s,l,d : string, w,h : int)  +horn() : int |  | +LionTrophy(s,l,d : string, w : int, g : LionGender)  +sex() : LionGender |

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| --- |
| <<Enumeration>>  **LionGender** |
| FEMALE  MALE |

return horn\_weight

return tusk\_length2

return tusk\_length1

Trophy(s,l,d,w)

gender = g

return gender

Trophy(s,l,d,w)

horn\_weight= h

Trophy(s,l,d,w)

tusk\_lenght1= t1

tusk\_length2 = t2