Application - people : People[] + Application() + Application(people : People[]) + Application(other : Application) + setPeople(people : People[]) : boolean + getPeople() : People[] + addPerson(index : int) : boolean + addPerson(person : Person) : boolean + addPerson(person : Person, index : int) : boolean + deletePerson(index : int) : boolean + deletePerson(person : Person) : boolean + searchPerson(index : int) : Person + searchPerson(name : String) : Person + searchPerson(person : Person) : Person + displayInfo(person : Person) : String //similar to search + sortByType(type : int) : boolean //sorts types in alphabetical order (i.e. employee, student). Sorts people instance variable inherited person types by alphabetical order) + equals(other : Application) : boolean + clone(): Object + toString(): String

Person

+ DEFAULT_NAME : String

+ getGender() : char + getAddress() : String

getTelephoneNumber() · String

+ DEFAULT_SOCIAL_SECURITY : String + DEFAULT_AGE : int + DEFAULT_GENDER : char + DEFAULT_ADDRESS : String + DEFAULT_TELEPHONE : String - name : String - social security number : String - age : int - gender : char - address : String - telephone number : String + Person() + Person(name: String, ssn: String, age: int, gender: char, address: String, telephone: String) + Person(other : Person) + setName(name : String) : void + setSocialSecurityNumber(ssn : String) : boolean + setAge(age : int) : boolean + setGender(gender : char : boolean + setAddress(address : String) : void + setTelephoneNumber(phone : String) : boolean + getName(): String + getSocialSecurityNumber() : String + getAge(): int

+ equals(other: Person): boolean + clone() : Object + toString() : String Student **Employee** + DEFAULT_DEPARTMENT : String + DEFAULT_JOB_TITLE : String + DEFAULT GPA: float + DEFAULT_MAJOR : String + DEFAULT_YEAR_GRADUATED : int + DEFAULT_YEAR_OF_HIRE: int - department : String - gpa : float - major : String - jobTitle: String - yearGraduated : int - yearOfHire: int + Student() + Employee() +Student(gpa: float, major: String, yearGraduated: + Employee(other : Employee) + Employee(department : String, jobTitle : String, yearOfHire: int) +Student(other : Student) + setDepartment(department : String) : boolean + setGpa(gpa : float) : boolean + setJobTitle(jobTitle : String) : boolean + setMajor(major : String) : boolean + setyearOfHire(jobTitle : String) : boolean + setyearGraduated(yearGraduated : int) : boolean + getDepartment(): String + getGpa(): float + getJobTitle() : String + getMajor() : String + getyearOfHire(): int + getyearGraduated(): int + equals(other : Employee) : boolean + equals(other : Student) : boolean + clone(): Object + clone(): Object + toString(): String + toString(): String **HourlyEmployee** + DEFAULT_HOURLY_RATE : float + DEFAULT_HOURS_WORKED : float + DEFAULT_UNION_DUES : float - hourlyRate : float - hoursWorked : float - unionDues : float + HourlyEmployee() + HourlyEmployee(hourlyRate: float, hoursWorked : float, unionDues : float) + HourlyEmployee(other : HourlyEmployee) + setHourlyRate(hourlyRate: float): boolean + setHoursWorked(hoursWorked : float) : boolean + setUnionDues(unionDues : float) : boolean + getHourlyRate(): float + getHoursWorked(): float + getUnionDues(): float + equals(other : HourlyEmployee) : boolean + clone() : Object

+ toString() · String