ΠΡΟΣΧΕΔΙΟ ΣΧΕΔΙΑΣΗΣ ΤΟΥ ΛΟΓΙΣΜΙΚΟΥ

ΚΛΑΣΕΙΣ ΠΟΥ ΘΑ ΧΡΗΣΙΜΟΠΟΙΗΘΟΥΝ:

- 1. Map
- 2. Creature
- 3. Object
- 4. Avatar : public Creature
- 5. Werewolf :public Creature
- 6. Vampire: public Creature
- 7. Tree:public Object
- 8. Water : public Object
- 9. Potion :public Object

STRUCTS ΠΟΥ ΘΑ ΧΡΗΣΙΜΟΠΟΙΗΘΟΥΝ:

- 1. state
- 2. surroundings
- 3. state info
- 4. point

ΤΑ ΜΕΛΗ ΚΑΘΕ ΚΛΑΣΗΣ:

```
Map {
private: int length, int width, bool night
public: Map(constructor) , ~Map(destructor)
       void set time(bool)
       int get_length()const
       int get_width()const
       bool get time()const
}
Creature{
protected: Point position, S surround
public: virtual void movement(State state, int first)
       void set_position(Point position)
       Point get position()const
       void set_surround(S sur)
      S get surround()const
}
Object{
protected: Point position
public: void set_position(Point position)
       Point get position()const }
```

```
Avatar: public Creature{
                                  ( + τα μέλη με του Creature)
private: int potions
public: void movement(State state, char character)
       void set_potions(int potions)
       int get potions()const
       void help team(State state)
Werewolf: public Creature {
                                  ( + τα μέλη με του Creature)
private: int health, int strength, int defence, int medkit
public: void attack(Vampire*)
       void help(Werewolf*)
       void set health(int health)
       void set strength(int strength)
       void set defence(int defence)
       void set_medkit(int medkit)
       int get_health()const
       int get_strength()const
       int get defence()const
       int get medkit()const
}
class Vampire : public Creature { (+ τα μέλη με του Creature)
private: int health, int strength, int defence, int medkit
public: void attack(Werewolf*)
       void help(Vampire*)
       void set health(int health)
       void set strength(int strength)
       void set_defence(int defence)
       void set medkit(int medkit)
       int get_health()const
       int get strength()const
       int get_defence()const
       int get medkit()const
       void movement(State state, int first)
Tree :public Object {} ( ίδια μέλη με το Object)
Water :public Object {} ( ίδια μέλη με το Object)
Potion :public Object {} ( ίδια μέλη με το Object)
```

ΚΑΘΟΛΙΚΕΣ ΣΥΝΑΡΤΗΣΕΙΣ:

- State state_create(Map* map)
- void state_update(State state)
- 3. void board(int x, int y, State state)
- 4. void menu(State state)
- 5. void deallocation(State state)

ΣΤΑΤΙΚΕΣ-ΒΟΗΘΗΤΙΚΕΣ ΣΥΝΑΡΤΗΣΕΙΣ:

- 1. static void check(State state, Creature* c)
- 2. static void reload(State state, Creature* cr)
- 3. static void move(Creature* cr, State state,int i)
- static Werewolf* create_w(State state, int x, int y)
- 5. static Vampire* create v(State state, int x, int y)
- 6. static Avatar* create_avatar(State state, int x, int y)
- 7. static Tree* create_tree(State state, int x, int y)
- 8. static Water* create_water(State state, int x, int y)
- 9. static Potion* create_potion(State state, int x, int y)
- 10. static void add(State state, int x, int y)