Assumptions: Player dies when he touches a harpy or a skeleton. Enemies can be killed by one hit from the sword of the player. We have an enumeration with all entity types. The hook can only hit walls. Entity **Entity Manager** ENTITY\_TYPES type p2List<j1Entity\*> entities fPoint position fPoint initialPosition Game il Entity\* CreateEntity(ENTITY\_TYPES type) float speed void DestroyEntites() Animation\* animation void AddEnemy(int x, int y, ENTITY\_TYPES type) Collider\* collider void CreatePlayer() SDL\_Texture\* sprites void SpawnEnemy() void OnCollision(Collider\* c1, Collider\* c2) bool Update(float dt, bool do\_logic) void Draw(SDL\_Rect r, bool flip, int x, int y) virtual bool CleanUp() bool Start() Δ **Player** Hook uint currentJumps int objectivePosition iPoint playerSize iPoint hookSize **Animations** bool thrown State bools **Animations Audios Audios** void OnCollision() void OnCollision() bool Update() bool Update() void Draw() void Draw() void LoadPlayerProperties() void LoadHookProperties() Skeleton Harpy Movement direction Movement direction p2DynArray<iPoint>\* path p2DynArray<iPoint>\* path bool path\_created bool path\_created **Animations Animations** iPoint colliderSize iPoint colliderSize void OnCollision() void OnCollision() bool Update() bool Update() void Draw() void Draw() void LoadSkeletonProperties() void LoadHarpyProperties() void Move(p2DynArray<iPoint>& path, float dt) void Move(p2DynArray<iPoint>& path, float dt)