

ASSUMPTIONS

Player:

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- The inventory of the Player remains after the Player dying
 - The Player's health is always greater than 0 (If not, the player will be removed from the list of entities)

Static Entities:

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- exit destroyed by bomb or a switch destroyed by a bomb in a dungeon with exit goal or active goal it is removed.
 - When target destination for portal is blocked it will look for another open cardinally adjacent destination
 - Boulders can be pushed o to collectibles
 - Zombies can move onto portals without any effect
 - When a boulder is on top of an enemy or portal it is counted as just a boulder.
 - Using a weapon on a zombie spawner will not affect its durability.
 - zombies and player cannot go through zombie spawner
 - zombies and mercenary can't push boulders
 - bribing a mercenary doesn't count as defeating an enemy
 - player will stay on top of portal if cannot travel
 - when boulder is pushed onto spider tile counts as a boulder
 - when bribe radius is 0 cannot be bribed
 - if a bomb explodes the portal the portal still functions from one end
 - When spawning zombie from zombie spawner, do not initiate combat with player even if player is there

Dynamic Entities:

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- Two or more dynamic entities can exist on the same tile (eg, if two spiders move into the same tile)
 - Zombies and Mercenaries can not move boulders
 - Zombies will always try to move in a random direction (testing all 4 cardinal directions). Should no directions be valid (blocked by wall, etc), the Zombie will remain stationary
 - Mercenaries should not move towards the player when running away, even though the only valid position is towards them
 - Mercenaries will move away from the player with an invincibility potion active in the player's new portal position rather than the portal position the player walked into
 - Mercenaries are able to move onto portals but have no effect
 - Zombies are able to move onto portals but have no effect

Buildable:

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- The materials used when building an item is undefined/no specific order
 - Buildable items used after battle which have broken (durability == 0) should be removed from Inventory
 - You can only build one bow or shield at a time (cannot build multiple bows all at once)
 - If a itemUsedId is undefined for building, the tick for entities moving (aside from player) is still executed

Battle:

- Order of battle has no specific order (is undefined)
- Multiple copies of the same weapon can be used at the same time (2 swords)
 - However, the durability of all weapons used should be updated
- Mercenaries run away from players who have consumed an Invincibility potion on the same tick
- Having an invincibility potion during battle will not decrease the durability of weapons used
 - The only weapon used is the invincibility potion itself
- If the defence buff is greater than the enemy's attack, the player will heal (can be thought of as absorption of damage into health)

Bombs:

- Bombs cannot explode other bombs
- Bombs becomes an obstacle and cannot be picked up again after being placed
- Bombs will destroy every entity but the player
- Destroying enemies with bombs will not contribute to the enemy goal
- If there are multiple active bombs around an active switch the order in which they explode is undefined/no specific order