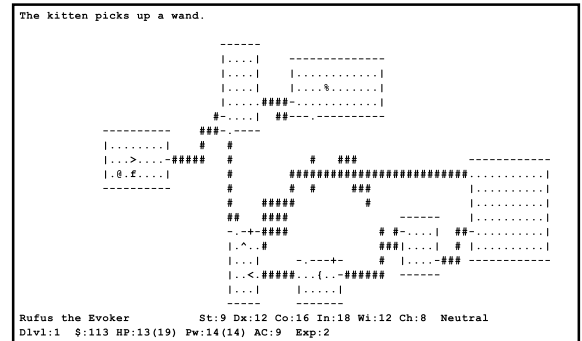


# Boolean Logic : Nethack

Nethack is a dungeon exploration game where you (the '@') are searching for the Amulet of Yendor, fighting monsters and gathering treasure on the way.

One of the monsters in the dungeon is a cockatrice, which can petrify you (turn you to stone) if you touch it.

Here is some of the logic used in the game to determine if you are turned to stone.



## How to be petrified by a cockatrice:

**Petrify = (HandAttack AND (NOT Gloves))**  
**OR (Kick AND (NOT Boots))**  
**OR (Headbutt AND (NOT Helmet))**  
**OR (Hug AND (NOT (Gloves AND Cloak)))**  
**OR (Bite OR Sting OR SuckBrain OR Swallow)**

## How to be petrified by a cockatrice corpse:

**Petrify = Eat**  
**OR HitBy**  
**OR ((NOT Gloves) AND (PickUp OR Wield OR Throw))**  
**OR (Gloves AND Wield AND (Fall OR DestroyGloves OR (Burdened AND Stairs)))**  
**OR (Kick AND (NOT Boots))**  
**OR (Blind AND (NOT Gloves) AND MoveInto AND (NOT Levitating))**

**Bite** = you bite the cockatrice (while you are polymorphed into a monster (like a *jabberwock* or a *giant beetle*) that can bite)

**Blind** = you are blind

**Boots** = you are wearing boots

**Burdened** = you are burdened (carrying too much)

**Cloak** = you are wearing a cloak

**DestroyGloves** = your gloves are destroyed (by a *Destroy Armor* spell, or by being over-enchanted)

**Eat** = you eat the cockatrice

**Fall** = you fall down a pit, hole, trapdoor or chasm

**Gloves** = you are wearing gloves

**HandAttack** = you attack the cockatrice with your hands

**HitBy** = you are hit by another monster wielding the cockatrice as a weapon

**Helmet** = you are wearing a helmet

**Headbutt** = you headbutt the cockatrice (while you are polymorphed into a monster (like a *minotaur* or a *unicorn*) that can headbutt)

**Hug** = you hug or crush the cockatrice (while you are polymorphed into a monster (like an *owlbear* or a *guardian naga*) that can hug/crush)

**Kick** = you kick the cockatrice

**Levitating** = you are levitating

**MoveInto** = walk/move into same space as cockatrice

**PickUp** = you pick up the cockatrice

**Stairs** = you are going down stairs

**Sting** = you sting the cockatrice (while you are polymorphed into a monster (like a *killer bee*) that can sting)

**SuckBrain** = you suck the brain of the cockatrice with your tentacles (while you are polymorphed into a brain-sucking tentacled monster like a *mind flayer*)

**Swallow** = you swallow the cockatrice (while you are polymorphed into a monster (like a *purple worm*) that can attack other monsters by swallowing them)

**Throw** = you throw the cockatrice

**Wield** = you are wielding the cockatrice as a weapon