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# Introduction

CatchTime means that in the learning process, you must race against time, constantly remove obstacles, and finally find the true knowledge. Reflected in the game:iterative flooring, randomly generated obstacles and hidden medal. As a player, you must use the bomb to remove obstacles and gain knowledge reasonably before the disappearing floor. At the same time, you have to remember the number of ground bombs you use, because the final test is waiting for you. The biggest fun of the game is that you have to constantly plan the route and the use of bombs.

# Game flow and game mechanics

3.1.Goal:find medal

3.2.Lose condition:your health less than 0 or you can’t find medal in the final

3.3. mechanics:

1. Dynamically maintained 12 \* 8 floor

2. Randomly generate different obstacles according to the dynamic change of difficulty

3. Players advance through the bomb destroy obstacles and get props

4. The final puzzle: Only the player's knowledge is greater than 30 and the bomb used by him is calculated to have a remainder of 3 to correspond to the position of the medal.

# Player

* 1. State:

|  |  |
| --- | --- |
| name | function |
| health | Range from 0 to 100.less than 0,you will lose game |
| knowledge | You can read book to abtain knowledge and it will be a condition to find medal |

4.2.control:

|  |  |
| --- | --- |
| input | function |
| wasd | move |
| space | Place bomb |

# 5.Items

|  |  |  |
| --- | --- | --- |
| name | image | function |
| bomb |  | Destroy breakable items |
| bag |  | Breakable.After destruction,book appears. |
| chair |  | breakable |
| desk |  | Breakable.After destruction,you have chances to gain takeout,shoes and smart phone |
| Podium |  | unbreakable |
| medal |  | After solving the final puzzle,you will gain it and win the game |
| shoes |  | You will speed up for a while |
| Take out |  | You will increase the power of bomb,which can detroy unbreakable items for a while |
| Smart phone |  | You will slow down the speed of floor for a while |
| book |  | You will gain 1 knowledge |