**AD 프로젝트**

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| 프로젝트 명 | *SnakeGame* |
| 팀 명 | *뱀이다~* |
| 문서 제목 | 결과보고서 |

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| **Version** |  |
| **Date** | 2021-06-18 |

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| **팀원** | 김창규 |
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| **CONFIDENTIALITY/SECURITY WARNING**  이 문서에 포함되어 있는 정보는 국민대학교 소프트웨어융합대학 소프트웨어학부 및 소프트웨어학부 개설 교과목 C++프로그래밍 수강 학생 중 프로젝트 “snakegame”를 수행하는 팀 뱀이다~ 의 팀원들의 자산입니다. 국민대학교 소프트웨어학부 및 팀 뱀이다~의 팀원들의 서면 허락없이 사용되거나, 재가공 될 수 없습니다. |

**문서 정보 / 수정 내역**

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# 개요

**1.1 프로젝트 개요**

2021년 1학기 C++ 기말 프로젝트로 진행된 Snake Game입니다.

**1.2 팀 소개**

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| 팀원1 | 소프트웨어전공 | 20162347 | 김창규 |
| 팀원2 | 소프트웨어전공 | 20172612 | 김경환 |

**1.3 개발환경**

**Github**

<https://github.com/Kim-Changgyu/snakegame>

**IDE (or Text Editor)**

Atom, Visual Studio 2019

**OS (Contains Runtime Environment)**

Linux Ubuntu 20.04 LTS

# 개발 내용 및 결과물

## 목표

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| **작성요령 (10점)**  **프로젝트의 목표를 기술하세요. 각 단계별 목표를 구체적으로 쓰세요.** |

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| --- | --- | --- |
| 적용단계 | 내용 | 적용 여부 |
| 1단계 | Map의 구현 | 적용 |
| 2단계 | Snake 표현 및 조작 | 적용 |
| 3단계 | Item 요소의 구현 | 적용 |
| 4단계 | Gate 요소의 구현 | 적용 |
| 5단계 | 점수 요소의 구현 | 적용 |

**1단계 : Map의 구현**

Map은 X, Y의 위치를 담는 2차원 배열로 구성돼있다. MapLoad 함수를 이용해 사전에 생성해놓은 data 디렉토리의 레벨별 stageX.txt(텍스트 파일)을 fstream Header를 Include하여 ifstream 객체를 생성해서 스테이지에 맞는 파일을 읽어들여 2차원 배열인 map에 저장한다. 2는 Immune Wall, 1은 Gate가 생성될 수 있는 Wall, 0은 Snake가 움직일 수 있거나 아이템이 생성될 수 있는 Field이다.

**2단계 : Snake 표현 및 조작**

Snake는 초기 map[10][10]인 맵 중앙에서 Snake Head가 생성되며 오른쪽 방향으로 Head 옆에 Snake Body가 2개 생성된다. Snake의 초기 진행 방향은 왼쪽이다.

Thread를 이용해서 언제든지 사용자가 방향키를 입력하면 NCURSES 내장 키워드인 KEY\_LEFT, …, KEY\_DOWN 를 key 변수에 저장하도록 구현했다. Snake의 좌표는 0.5초마다 입력한 방향대로 진행방향이 변한다. 갱신 주기인 TICK RATE는 Main.cpp 상단에서 조절 가능하도록 구현했다.

Snake Head의 색상은 초록색이고, Snake Body의 색상은 연두색이다.

Snake Head가 벽이나 Snake Body에 닿으면 게임이 종료된다. 또 진행 방향의 반대로 방향키를 입력하면 자기 몸과 닿게 되므로 이 경우에도 게임이 종료된다.

Snake Head가 아이템을 먹으면 아이템에 따라 Snake Body가 늘어나거나 줄어든다.

Snake Head가 한쪽 게이트를 통과하면 다른 쪽 게이트에서 출현한다.

**3단계 : Item 요소의 구현**

아이템은 랜덤한 간격으로 생성되고 사라진다.

아이템은 Snake와 Wall에 겹치지 않도록 생성된다.

Map 상에 존재할 수 있는 아이템의 개수는 최대 3개이다.

Snake Body를 1개 증가시키는 Growth Item은 오렌지색이고, Body를 1개 감소시키는 Poison Item은 보라색으로 구성했다. 적합한 색상을 사용하기 위해 Ncurses의 Built-In 색상을 변경해서 사용했다.

**4단계 : Gate 요소의 구현**

게이트는 램덤으로 한 쌍 생성된다. 하나의 게이트가 활성화되어 있으면, 다른 게이트는 활성화될 수 없다.

Snake가 게이트 한쪽으로 진입하면 다른 게이트로 나온다.

Snake의 진입 진행방향에 따라 게이트에서 나오는 snake의 진행방향이 다르다. Gate가 map의 가장자리에 위치한 경우에는 맵 안쪽으로 나오며, 가장자리가 아닌 맵 안쪽에 위치하면 진행방향, 진행방향 우측(시계방향), 진행방향 좌측(반시계방향), 진행 반대 방향 순으로 출구쪽에 장애물이 위치하면 진행방향이 변경된다.

게이트는 2차원 배열인 map에 2로 표시된 Immune Wall에는 나타나지 않는다.

**5 단계 : 점수요소의 구현**

우측 상단에는 현재 Game의 점수를 표기하고, 우측 하단에 Mission를 표기하는 화면이 있다.

B는 Body Length, +는 Growth Item의 수, -는 Poison Item의 수, G는 Gate이용 횟수이다. 각 우측 상단에는 현재 게임의 각 요소를 표시하고, 우측 하단에는 목표 횟수를 표시해준다.

미션을 모두 충족하면 다음 스테이지로 넘어간다. 다음 스테이지의 맵은 MapLoad에서 불러 읽어오며 미션은 missionvec 변수에서 불러온다. 최대 길이는 data/score.txt 에 저장되고, Score 함수를 통해서 저장 및 불러오기가 이루어진다.

모든 스테이지를 클리어하면 게임이 종료된다.

## 개발 내용 및 결과물

### 개발 내용

**1) Map의 구현**

Map은 각 stage별로 총 4개 구현되어 있으며 data파일에 stage0.txt. stage1.txt stage2.txt, stage3.txt 파일로 저장되어 있다. 각 텍스트 파일은 Immune Wall은 2, 일반 Wall은 1, 나머지 공간은 0으로 2차원 배열로 저장하기 위한 데이터를 갖고있다. 이 텍스트 파일은 게임과 함께 제공되는 파일이며, 컴파일 시 생성하는 파일이 아니기 때문에 파일이 없으면 오류가 발생할 수 있다.

**![텍스트, 전자기기, 컴퓨터이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOq5gOqyve2ZmAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNTEAAJKSAAIAAAADNTEAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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/0vV5NLvrZo72JgjwAhiGIBA+XOTyOlG+v9P+rhtp/Xb9Ds5fFdpokGlxW2ry+IJ4NUjv5rlkkQBI1CJEPMwc4z7DgDNM1fxBplnoep2+na5Pq76hJGttFJFIosoFkMu07uM7iBhcjqc1yOraJqWhXcdrq9o9rcSRLKsT43bW6ZA6H2PNO1LQdU0e2tJ9UspbVL1C8HmjDOoOCdvUfiBmi/Xz/r8g8v6/rU7jU/FulOdY1a31m4uH1O1kSHSGjkAtZZgolYk/Jjg42kk8ZxTrHxfpaSadrUuszxS2VnHHLowjkxPcRRmONww+Tbggkk5HIwa4W40DVLTRYNXurKWGxuJPLhmkG3zGxngHkjHfGKI9A1STQptZWyl/s6F1R7lhtXcTgAZ+9+Gcd6Htb+l2/MF/X6/kdfoviHS5tJ0ZdQ1ufS20slLq2jikb7dCJfNULt4zuJGGwOhptv4ns9a0+9gvNZl0C4fUp7xJ0jkdZIpgBJEfL5zwOvB5ziuSsNA1TU7C7vbGylltbKMyXE4GEjUe54z7DmjR9A1TX7h4dHspbp40LvsGFRQMksx4HTuaH5/wBdf0BeX9f1c7M+MbDU9U12NdRn0WO7lt5bC+2OTEYFKLuCZYblJ5GcGk/4S3Sm1qSwF7OmnnR10xdS8ttwkVhIJtv3sbx064964jStI1DW9QjsdJtJbu5kOFjjXP4nsB7nimrpl6+qNpsVtJLeLIYvIiXexcHBAxnPPpR5f1tb8g8/67/od1/wmOnWOr6JBJqE+rW9sl0L/UNjBpWuQVdlD4Y7Rjrgkg1meIdYs/8AhGItGt9bk1ueS8FzNePHIqxosflxoN43HAJzxgcAZrm9Q0e/0vV5NLvrZo72JgjwAhiGIBA+XOTyOlS6j4e1bSdSg0/UbGWC8uER44GwXIf7vA6E+h5o3X9eobM3/Eh0ZvBui2lh4gtL2600SrJFFBOpfzJNwKl4wOB1yR7Zrjq2dW8J61olmt3qNoqW7SeV5kc8coV8Z2tsY7T7HBrGo6gFFFFABRRRQB13g/wtN4lvLlvKuZbWxjEs6WkZeWTJwEQepPc8AZParOrp4nvfGRjj0y/sL+aARwWUSOsiwKu0L6sNq8nvg1ylFO+qA6/4n6de2Xjq9mvLWaCO4KtC8iFRIAigkHvzVTwV4TuNVt7jXDp93qNtYSKqWdpGWe4lPIUkfdQYyzfQDk8c3VOlHRA9TudCj8U6h8Usy2l9Hey30VxqNvFG67U8xWO9R/CMjr7VQ1fSfENt8QNQs7Gz1CG/uZ5mSKFHWSSJmY5AHJUgfTFcrRQtLeX/AAP8g7+Z3fxC0zW7L4nzSW1re29xdSp9jeNWV5TsVfkI5JzxxSfETSdYsJtBu7yzu7cjTLaHzpEZSJgCSuf7w/OuFoo6JdmHW/kd/wCNNF1+LwL4dutYsb5XhFx9pmuY2yjPLldxPc9s9adf6P4iuPhFHdahZahLt1L7R5syO2IPIAV8n+DsD0rz6ijo13/zuHVM9B0LR/EWpfDDXGFlqF1A4thZko7qUSRi2z2HfHSm+ANM17UtG1xbW1v7qxOmXEMCorNH5xKHao6biPTmuAooet/P/hg7eR3vww0/XJfFwgtre+a0tmlF3Gitsjk8p1XeOgOeBmqHg3SvEEHju10+3tL+OWG6ha+t0VwVjEinMijsMg81yNFOLtJSFJXTR1Wr6T4htviBqFnY2eoQ39zPMyRQo6ySRMzHIA5KkD6YrR+IWma3ZfE+aS2tb23uLqVPsbxqyvKdir8hHJOeOK4SipirJLsVJ3bfc7r4iaTrFhNoN3eWd3bkaZbQ+dIjKRMASVz/AHh+dS+NNF1+LwL4dutYsb5XhFx9pmuY2yjPLldxPc9s9a4Cim/1uLt6HoN/o/iK4+EUd1qFlqEu3UvtHmzI7Yg8gBXyf4OwPSjQtH8Ral8MNcYWWoXUDi2FmSjupRJGLbPYd8dK8+ooerfnb8AWiSO/8AaZr2paNri2trf3VidMuIYFRWaPziUO1R03EenNN+GGn65L4uEFtb3zWls0ou40VtkcnlOq7x0BzwM1wVFD1fyt/X3gtFbzOu8G6V4gg8d2un29pfxyw3ULX1uiuCsYkU5kUdhkHmo9X0nxDbfEDULOxs9Qhv7meZkihR1kkiZmOQByVIH0xXK0U+3lf8f+GDv5nd/ELTNbsvifNJbWt7b3F1Kn2N41ZXlOxV+QjknPHFO8f+H9aW88PfadPuo3m061tQ0sZXdNg5TJ/i55FcFRSWyT6MOrfkd94r8P6r4V8MyaNDpV8LNZ0m1DU5YGWOaUAqqoSOEG4gHqxOemBXA0UUut2HkFFFFMAooooAuUUUUAFU6KKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//Z)**MapLoad 함수는 정수형 인자를 하나 받도록 구현했으며, 내부적으로 data/stage + level 의 문자열을 만들어 파일을 읽어 들이는 역할을 수행한다. 또한, 스테이지가 올라갈 때마다 MapLoad 함수가 호출된다.

**화이트보드이(가) 표시된 사진

자동 생성된 설명텍스트, 시계이(가) 표시된 사진

자동 생성된 설명텍스트, 시계, 스크린샷이(가) 표시된 사진

자동 생성된 설명**

각 레벨 별 스테이지의 모습(왼쪽 위부터 stage1, 2, 3)

data폴더에서 텍스트 파일로 저장 되어있던 2차원 배열이 2는 Immune wall로 검은색 1은 일반 wall로 회색 0은 일반 map으로 흰색으로 지정되어있다.

**2. Snake 표현 및 조작**



Snake의 처음 위치는 map[10][10]에 Snake Head를 위치시키고 Head를 기준으로 SnakeBody를 오른쪽 방향으로 2만큼 생성한다. 초기방향은 왼쪽이며 0.5초마다 keyControl() 함수를 통해 방향을 입력을 받아 벡터에 저장되어있는 Snake의 좌표위치가 갱신된다. Snake의 진행방향과 반대방향키, 혹은 ESC키를 누른다면 게임오버가 되며 게임이 종료된다. 갱신 주기는 Main.cpp 상단에 TICK\_RATE 부분을 수정하면 더 빠르게 갱신이 가능하다. 이를 통해서 난이도를 조절할 수 있다.

keyControl 함수는 기존에 진행 방향이나 입력키와 반대되는 키를 입력을 하면, 게임을 즉시 종료시키도록 구현했다.

Head는 말 그대로 입력에 따라 x, y가 갱신되지만, Body는 자기보다 한 칸 앞선 위치에 있는 좌표를 따라가도록 Following X, Y를 pair<int, int>를 담는 벡터를 사용했다.

**3. Time구현**

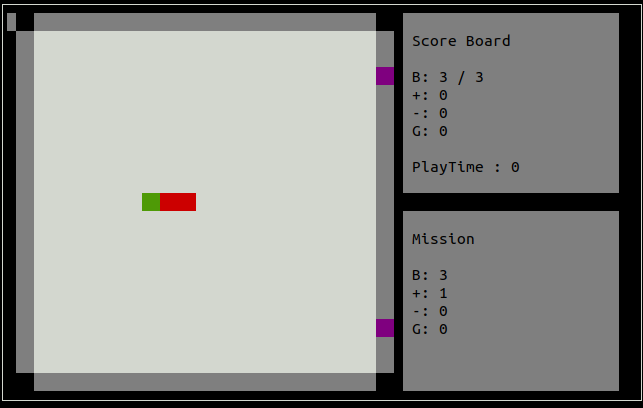
게임 플레이 시간을 제어하고 아이템 랜덤 생성 및 삭제를 위해 Timer 헤더를 구현하였다. Time.h 라이브러리를 이용해 시간을 초 단위로 리턴 할 수 있게 하였다. 아이템을 제어하는 Items 클래스, 게이트를 제어하는 Gate 클래스에서 멤버로 사용된다. 이를 통해서 아이템과 게이트가 생성된 시간과 현재 시간을 비교해서 특정 시간이 경과했을 경우 삭제할 수 있도록 했다.

**4. Item 구현**

아이템 좌표를 지정하기 위해 맵을 받아오고 맵의 좌표를 선택한다. 비어있는 공간이면 rand() 함수를 활용해 랜덤으로 Growth일지 Poison일지 정하고 좌표를 저장한다. 기존에는 50% 확률로 결정했었지만, 게임의 진행 속도를 고려해서 Growth는 66%, Poison은 33%로 생성되도록 조정했다.

아이템이 생성되고 삭제되는 기능은 update() 함수에 구현하였다. Item은 약 4초~6초 사이에 랜덤한 위치에 생성되고 만약 획득하지 못한경우 10초 전후로 사라지게 된다. Field 상의 Item 개수는 마찬가지로 update 함수에서 변경할 수 있다.

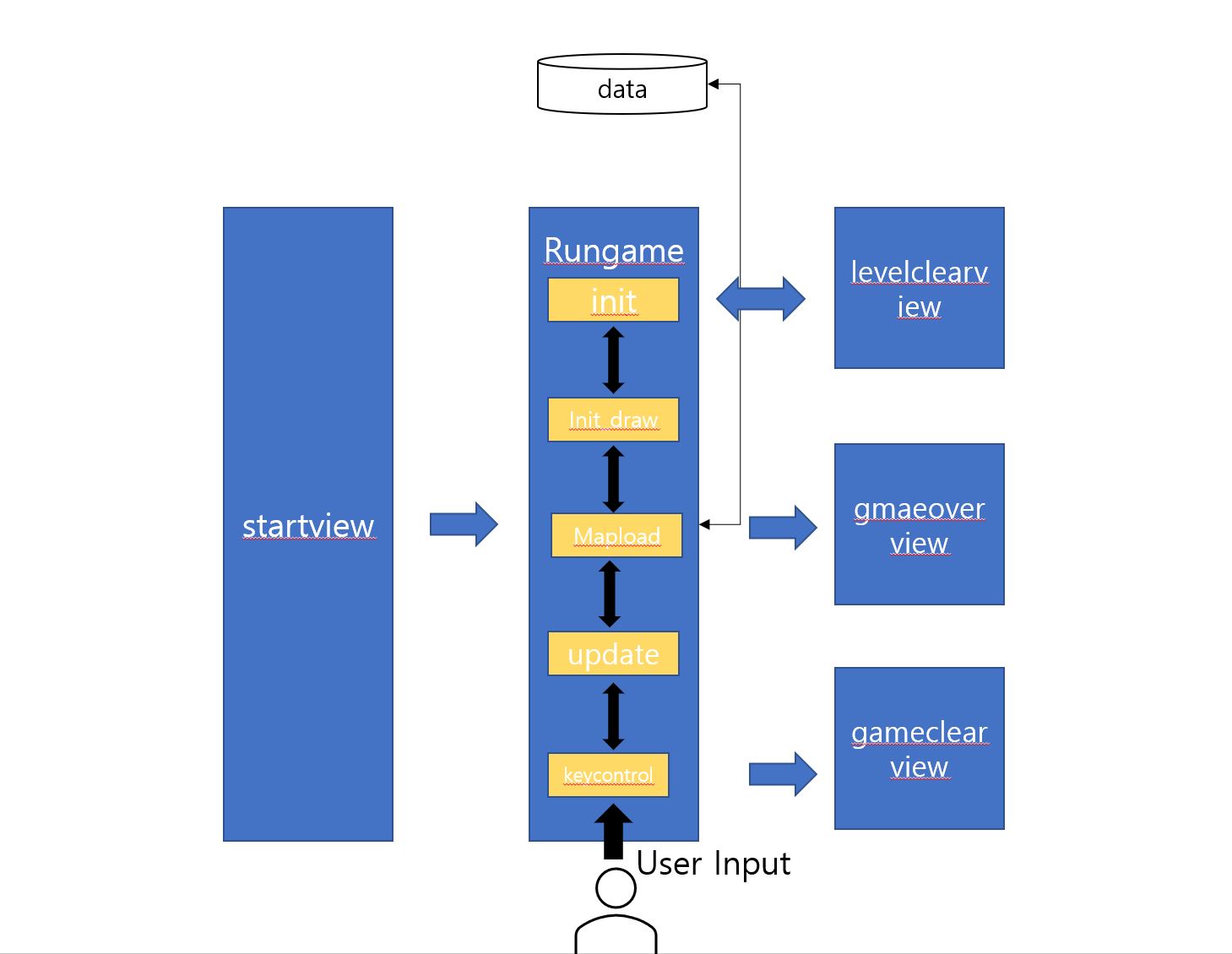
**5. Score Board, Mission 구현**



Mission은 사전에 2차원 벡터 missionvec에 저장해 놓았다. Missionvec[i][j]라 할 때 i는 레벨, j는 순서대로 각 레벨의 목표 bodylength, 목표 growthItem획득 목표 PosionItem획득이다. 미션창에는 위에서부터 B는 bodylength, +는 growthItem, - Posion아이템이다. 괄호 안은 현재까지 목표 달성 정도를 보여준다. 모든 미션을 충족하면 다음 레벨로 넘어간다.

Score Board의 B에서는 앞부분은 현재 기록, 뒷부분은 디스크에 저장된 최대 기록을 의미한다. Data/score.txt에 최고 기록이 저장되며, Update 함수 내에서 매번 불러오고 최대 기록을 저장한다.

### 시스템 구조 및 설계도



**함수**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 함수명 | 인자 | 리턴타입 | 설명 | 제작자 |
| Main | X |  | 메인메소드 | ALL |
| init | X | void | 초기 설정 함수 | 김창규 |
| Init\_draw | Int playtime | void | 초기설정 및 업데이트 시 호출할 함수 | ALL |
| Rungame | X | Void | 게임을 실행시키는 함수 | 김경환 |
| Update | X | Void | 갱신시간(Tick Rate)마다 호출할 함수 | ALL |
| keyControl | X | Void | 비동기 입력 처리를 위한 함수 | 김창규 |
| Map\_update | Bool items | Void | Update 함수에서 호출할 win1(게임화면)업데이트 함수 | 김창규 |
| Exit | X | Void | NCurses종료 전 메모리 반환 등을 위한 함수 | 김경환 |
| Startview | X | Void | 게임 시작 시 화면을 위한 함수 | 김경환 |
| Gameoverview | X | Void | 게임 오버 시 화면을 위한 함수 | 김경환 |
| Nextlevelview | X | Void | 미션을 모두 클리어 할 시 다음 레벨로 진입하기 전 화면을 위한 함수 | 김경환 |
| GameClearview | X | Void | 모든 미션을 클리어 했을 시 게임 종료 전 화면을 위한 함수 | 김경환 |
| MapLoad | Int level | Void | 스테이지별 맵을 로드하기 위한 함수 | 김창규 |
| GateCheck | X | void | 게이트 진입 여부 체크를 위한 함수 | 김창규 |
| GateControl | X | bool | 게이트 출구 위치 계산을 위한 함수 | 김창규 |
| Score | X | Void | 최대 기록 불러오기 및 저장을 위한 함수 | 김창규 |

**클래스 및 구조체**

|  |  |  |  |
| --- | --- | --- | --- |
| 클래스명 | 인자 | 설명 | 제작자 |
| Item | X | 아이템 위치, 생성 시간 등의 정보를 갖는 클래스 | 김경환 |
| Gate | X | 입구, 출구, 생성 시간 등의 정보를 갖는 클래스 | 김창규 |
| POSITION | X | X, Y 값을 저장하는 구조체 | 김경환 |
| Timer | X | Item, Gate의 생성 시간 제어를 위한 클래스 | 김경환 |

### 활용/개발된 기술

**<ncurses.h>**  
Ncursese의 로직을 이용하여 map, snake, gate, mission등의 정보를 출력하고 UI를 구현했다.

**<thread>**입력 제어를 위한 thread를 생성하여 입력과 실행을 동시에 진행한다.

**<chrono>**Tick Rate마다, 즉 Millisecond 단위로 화면을 갱신하기위해 chrono를 사용했다.

**<vector>**Vector에 snake, map, Item, gate등이 출현하는 좌표를 설정하였고 Snake의 몸길이 벡터의 x, y값을 바꾸는 것으로 snak가 움직이는 것을 구현했다. mission의 내용을 저장하는 용도로 사용했다.

**<time.h>**Playtime과 Item램덤생성을 위해 Timer함수를 구현했고 그 과정에서 Time.h를 사용했다.

**<fstream>**Fstream을 이용하여 data폴더의 2차원 맵 정보를 파일 입출력으로 불러와 맵으로 표시하고 최대 기록을 읽어오며 저장하기 위해 사용했다.

**<string>**Map을 로드하기위해 to\_String을 이용 레벨을 텍스트로 전환하여 파일명을 만들어 각 레벨에 맞는 map파일을 로드한다.

**Ninja, Cmake**프로젝트를 위한 snakegame Package 구성과 Thread, Ncurses 사용이 가능하도록 설정하고, Linking을 통해 실행 파일을 생성하는데 사용했다.

### 현실적 제한 요소 및 그 해결 방안

1. 코드 분할

코드의 가독성을 위해 각 기능별로 헤더와 cpp파일로 구분하려고 하였으나 CMake, Ninja의 Linking 문제가 발생했고, Timer.h 는 분할했지만 2차원 배열인 map을 직접 참조하는 나머지 클래스들은 분할하지 못했다. 추후에 Main.cpp 코드 가독성을 위해 자료구조를 개선할 예정이다.

2. Gate 부분의 무더기 하드코딩  
유연하고 빠른 계산을 하지 않고 if문을 과하게 다중 중첩해서 사용했기 때문에 가독성도 좋지 않고 코드 길이가 매우 길다. 게다가 미미하지만 연산에 부담을 줄 수 있어서 Gate 클래스 내부에서 출구 방향을 연산할 수 있도록 알고리즘을 개선할 예정이다.

3. 키 입력 처리는 Thread를 통해서 무한정 자원을 소모하도록 설계되어 있다. TICK RATE 또는 그보단 적은 간격으로 입력을 받도록 개선해서 연산 처리 부담을 줄일 예정이다.

### 결과물 목록

**snakegame**

READM.md : Cmake, Ninja를 활용한 컴파일 방법을 제공

CMakeLists.txt : Package 설정을 위한 CmakeLists 파일

snakegame : 실제 컴파일을 통해 완료된 게임의 실행 파일

**data**

Stage0.txt, Stage1.txt, Stage2.txt, Stage3.txt : 각 스테이지별 맵 정보

Score.txt : 최대 기록 저장을 위한 파일

**src**

Main.cpp, Timer.h : 자세한 내용은 2.2.2 참고

# 자기평가

**김경환**

게임제작이 이번이 처음이라 자신감이 많이 없었다. 심지어 지금까지 파이썬을 주로 쓰다가 이번 학기에 C++을 처음 접하게 되어 많은 어려움이 있었다. 특히 ncurses라는 생소한 라이브러리는 나를 화나게 만들었다. 그러나 같은 팀원인 김창규 학우님이 먼저 map과 snake등 전체적인 UI를 먼저 잡아주어 구조를 파악하고 진행할 수 있었다.

이번 프로젝트를 통해 아직 내가 많이 부족하다고 느꼈다. 특히 여러 기능이 유기적으로 작동하는 프로그램 작성은 처음이라 코드를 가독성 좋게 효율적으로 작성하는 것에 많을 어려움을 느꼈다. 이번 프로젝트를 통한 경험을 발판 삼아 앞으로 개인적인 게임 개발 프로젝트도 진행해 보고 싶다는 생각도 들었다. 아쉬움이 많이 남았지만 방학 중 더욱 공부하여 다음 프로젝트에는 더욱 팀원으로써 도움이 되는 역할을 해보고 싶다.

**김창규**

게임 개발로 진출하고 싶었기 때문에 이번 프로젝트는 매우 기대가 됐고 실제로 재밌었다. 지난 학기 이창우 교수님의 게임 소프트웨어, Unity를 통한 게임 제작 방법을 익히고, 게임의 제일 중요한 요소인 재미의 중요성을 깨닫고 주어진 것 외에 재밌는 요소를 추가하고 싶었지만 시간적인 여유가 많이 부족해서 이후에도 보완하고 싶은 생각이 든다.

코드 작성에 있어 가독성을 지키지 못 하고, 자료구조 등의 프로그래밍 스킬이 많이 부족한데 김경환 학우님이 좋은 코드을 작성해주고 많이 보완해줘서 프로젝트 수행에 있어서 매우 수월했다고 생각한다. 마찬가지로 C++은 처음 배우지만, 최종 프로젝트를 통해서 그동안 배웠던 내용을 종합해서 응요해볼 수 있어서 좋았다. 이후에는 더 좋은 스킬과 참여 태도로 팀원에게 도움이 되고 싶다.

# 참고 문헌

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 번호 | 종류 | 제목 | 출처 | 발행년도 | 저자 | 기타 |
| 1 | 유튜브 | Ncurses and C++ 6  - snake game (part 6)  – example program 3 (for Linux!) | [링크](https://www.youtube.com/watch?v=zry632it0c8) | 2011.06.07 | thecplusplusguy |  |
| 2 | 웹 | NCURSES Programming HOWTO | [링크](http://wiki.kldp.org/wiki.php/NCURSES-Programming-HOWTO) |  |  |  |

# 부록

## 사용자 매뉴얼

Ncurses 라이브러리를 설치 후 진행해 주세요

![텍스트, 시계이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOq5gOqyve2ZmAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNjYAAJKSAAIAAAADNjYAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**게임설명**

방향키 : ↑↓←→ 로 진행

초록색 : snake 머리

빨간색 : snake 몸통

회색 : 벽

노란색 : growth 아이템 (획득시 몸길이 +1)

보라색 : Poison 아이템 (획득 시 몸길이 -1)

연보라색 : Gate (진입시 반대 게이트로 진출)

게임은 총 3스테이지로 구성되어 있습니다.

스테이지의 미션을 모두 클리어하면 다음 스테이지로 넘어갑니다.

마지막 스테이지 미션을 완료하면 게임이 종료됩니다.

**Gameover**

1. 벽에 충돌 시
2. 진행방향에 반대되는 방향을 입력할 시
3. 몸통에 머리가 충돌할 시
4. Snake의 길이가 3미만으로 줄어 들 시
5. Esc를 입력할 경우

## 설치 방법

Snakgame 폴더에 포함된 READM.md 에서 방법을 제공합니다.

단, 아래 방법을 수행하기 전에 NCURSES 를 설치해야 합니다. 방법은 다음과 같습니다.

sudo apt-get install libcurses5-dev libcursesw5-dev

아래는 README.md 파일 내용과 동일합니다.

1.snakegame디렉토리 안에 진입해서 다음과 같은 Command line 명령어를 통해 Build 환경을 구축 cmake -DCMAKE\_CXX\_COMPILER=g++ -DCMAKE\_CXX\_STANDARD=14 -DCMAKE\_VERBOSE\_MAKEFILE=ON -DCMAKE\_BUILD\_TYPE=Release -GNinja .

2. Package를 Ninja를 통해 Linking ninja

3. 생성된 파일을 다음과 같은 명령어를 통해 실행 ./snakegame