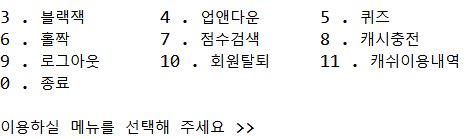
Leaderboard와 Betting을 이용한 게임 모음

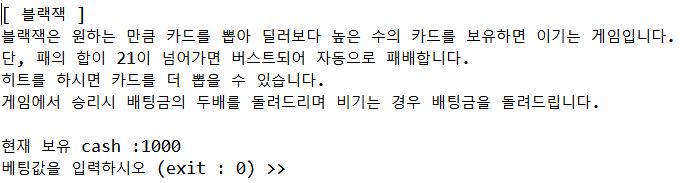
* 1. 이름: 박선미, 정민우, 홍세의, 홍현우

1. 프로젝트 주제
   1. 자신이 원하는 게임을 선택하여 즐길 수 있는 간단한 게임 모음 프로그램
   2. 현재 구현 완료된 게임에는 홀짝, UP&DOWN, 퀴즈, 블랙잭이 있음
   3. 퀴즈와 같이 기능성 게임을 추가하여 단순한 오락 이상의 의의를 가지려고 함
2. 프로젝트 기획 배경 및 목표
   1. 미니프로젝트의 핵심이 되는 매핑 뿐 만 아니라 게임의 확률이나 실행 알고리즘 실습을 통한 자바 프로그래밍 실력 향상도 꾀함
   2. 퀴즈에 포함되는 내용은 일본어 등의 교육목적을 담아 출제하도록 함
   3. 추후 수정을 위해 기능들에는 주석을 달아두고 게임이 추가될 경우도 생각해 확장성을 보장
3. 주요 기능
   1. 회원 관리와 적립금
      1. 회원등록 후 이용할 수 있는 회원제 서비스로 가입 시 기본정보를 받아 저장하고 로그인과 회원 탈퇴등의 기능을 수행함
      2. 회원의 가입과 함께 제공되는 적립금을 cash 테이블에 기록하고 기본금을 부여함
      3. 적립금의 이용내역과 이용시간을 따로 기록함
      4. 적립금 충전 기능을 추가하여 실사용시 결제 시스템과 연동
   2. 게임 세부
      1. 퀴즈 실행 시 퀴즈 보드 테이블에서 무작위로 선택된 퀴즈의 번호를 키로 사용하여 문제와 선택지, 정답을 불러와 이용함
      2. 블랙잭과 홀짝은 적립금을 이용, 퀴즈와 UP&DOWN은 점수판에 점수를 기록
      3. 점수판은 일정 기간 내의 점수만 보이며 어떤 게임에서 얻은 점수인지, 총점을 얼마인지 보여줌
4. 주요 화면 UI

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAMAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOOCuOODp+ODs+ODn+ODjAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNzIAAJKSAAIAAAADNzIAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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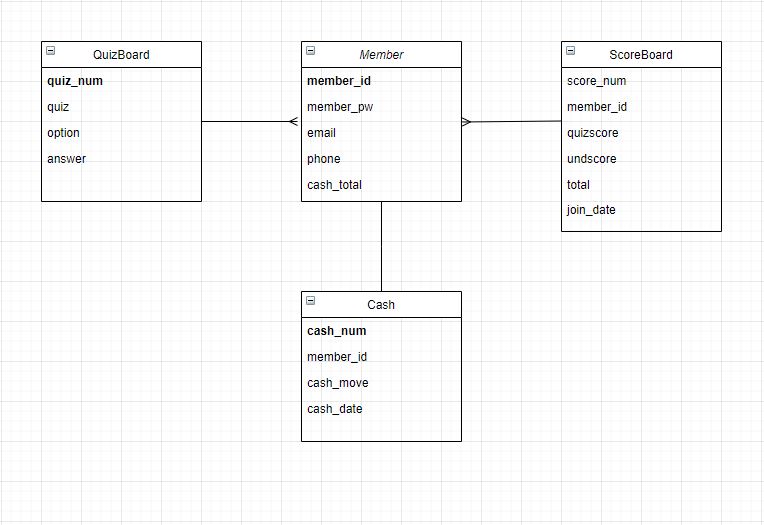
**회원제 이용**

** ![테이블이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAMAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOOCuOODp+ODs+ODn+ODjAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADODEAAJKSAAIAAAADODEAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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VPQAUUUUAFFFFABRRRQAUUUUAFFRXN1b2VrJc3k8dvBEpaSWVwqoB3JPAFS9elABRRSMyohd2CqoySTgAUALRUdvcQ3dtHcWssc8EqB45Y2DK6kZBBHBBHekubq3srWS5vJ47eCJS0ksrhVQDuSeAKAJaKOvSoprq3t5YYp54opLhykKO4BkYAttUHqcAnA7AmgCWiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPNviBY6Tr2tC01q3me3gi2l4PB899cAkZxHdGKSJVORkBCQQfmB6ZHgLTdC0G/0yfR9Gu9LedQJbW98I3Lz2pccxJfLFHhQTgtL5mQPvAV2/jPw1c6/Jp0sNvYanb2buZtJ1N2S2utwAVmIV/mTGRuRhyehwwq+FPCVzo/iGbUhpej+HrVrXyDpuiyM8U77gwmf93GoZQCowmcMctjABDR/1/X5/mEtUdnXFfEr7fHF4du9MWXzLTV1leWPTpr4RL5Ey7mhhIdhlgOCMEiu1rJ1XRr7UbpZbPxJqmlIqbTDZx2rKxyfmPmwu2eccHHHSl2H3PP7TW9V8S+MvDD/AGw6naWeoztM8Hhe+sFhK280Z3SzOycMdpXg5PtirvxG1zw/HrenQ6zf6PqNnZGT7foFzqdvDJIzqpikMczqj7eTtcgfMGGSorcsPA97pkDw2XjbxBHG80k7L5VgcvI5dzzbd2YnHbPFaXiXRrjWYNMS1kjU2mpW93IZSRuSN9zAYB5x06D6U97eourfk/1OB8G+IPCf/CbLPoE+h+G7CW1NqdMi1Sz3Xty0ilHEFvI8eQAy7s7234xgCvWayNP0qe08T6xqMjRmG+WARqpO4bFYHPGO/HJrXp9LC6nnetxxeKvjJB4Z1hBc6Np+j/2i9jIMxXMzTbFMi9HChchSCMnPYV1FxaWXhTwzcjQ10zRreL94DcfurS2yQGfaCAAOW2gqGOeQWLVV17wlNf8AiKy8RaHqK6ZrNpE1s0stv58VxAxyY5EDISA3zAhgQc9c1X8Q+DtR8T+GYLLVNah/tC3v4b6O4iscW4aNgVQwmQlkIHIMhOTnIGFEr4bff9/+X5ehT+K/9bf5/mUPB/jufWvF2p6FLqWi66ltZx3kOoaKdqEMxUxunmSYYEZ+90I4FReAvHd94tu/9L1HRba4DyrceH/Kkjv7LaSBuLPl8fKD+6UfNweMHX0fwlqVr4wuvEesa6t9d3Ngtl5dvZCCOFVcsCgLOe/RixySc4wory+CNR1XxHo2p+JNYs74aLK01obbTPs87sV2/vJfNYEY5KoqAkDoBiqXS/8AWr/S3+e5L62/rT/P/hjjNI1XxJow+JOqaKumpaabrF1dyfbEeR7krDGxjUKy+X8q/fO/Jb7vHPSeMPEumXuieHrtdZ0LT73zrbVo7TV9UW08yLaTjdtY98Z244NacXgPytD8Yad/aWf+EmuLibzPI/49vNiEeMbvnxtz2z7VLf6Frdj4b8P2Phy4hln0iSATLPcPapdRRxFCpKK5GSVOCCOKlaKKfTk/Df7tCnu/Pm/Hb79TJsPijZy30aanrHge3tSf3ktv4rE0i8dkMCA84/iFegAggEHIPQ1h2F34rkvo11PRdGt7Un95Lb6vLM6jHZDbIDz/ALQrcquhPU57xno0OseHrr7ZPciCC3mdraKUpHOdhwJMcuo5+Qnac/MDgY89tNSvdM/Zb0V9Lums7m4tLW1W5RsNCJZVjZgexAY4PY816b4isNV1PS3tNHv7OxMytHM91ZtcZVlx8oWWPB56nP0rm9K+HMi/Dd/BPiTU7fUtLFqltC9tZG3lQKchmLSSKzAhSPlAGOQc1PSXy+dr3/MrrH5/jY5G3+waB8QPDOoeCNMttM0G8MumyNCNn9rBYXkE2B95UZPlkOWfcxztwW5qeZL74WnxPpsMNx4ugQ61qHiBhh7Rs7ktw/Ulk2oIQdoQ5I5UN7Bpvg7UG17TtV8UaxBqsukwNFYR21j9lRGddryuPMfc5UADG1QC2F54y1+Fzx6Q/hqPWI08JSXZuH05bLE5Qt5hg88OB5Zfn/V7tvy7u9V139H21/z1/AWnVevn/S0/E5u8nsPFfjbxFDr+l2+v3kaQWGi6TONyQh4Flmm5H7sZdd0v3gFVRklVM+kX17qPwPhsNVvLu9vIruWyM0Flc3S3i29wRsl8lXdUkRNjMc8E/e5B7DUPBl9F4nvtd8KatbaTeanbJBei50/7SrlBiORMOhVlBI5LKePl45fL4Qm0j4aSeGvCFy9tcxwFbe5mnZGMhbczs6gkFiWJIHfpS05f66f0/W4a6f10/wCG+48wkubC48K+KLzStMj0S0n0ma3Fhpem3iWkkiMS0ryyW8MYkGCmNueMFjwB7xH/AKtfoK86vfBt5qWmrY6j4A8J3UCNK0Zm1ud5IjI5dykhtNyEsSflI9ulejJkRruAU4GQDkD8afQXX+vIw/GttqN54Ov4NHErXLKuUgk2SSRhwZERsjazJuUHIwSOR1rlNI07T/8AhIppvBXh+60bTP7Lmjv1OmyWEdxKSvkgROil3UCTLheAwG45wPR2GVI9RXk+n+D/AIlaf4ct9Ii1iIRQWy26hNUgCYC7eA2mMwHsXJ/2j1rOSupLy/NNGkXZp9maU1vNafDbwFb3UMkE8V5pSSRSKVZGG0EEHkEHtW/8TP8Akl/iH/rwk/lVnSvC1oPAuleH/EVlZaklpaQwyxTRCaJnRAMgOOeRwSKy9d+G2gTeGtUtfDXh/RNM1G7tJIIrmKyjhK7hjlkXIHritpv3pebb/L/Izp6KPkkvz/zIfE2j6ZrnxG8L2utadaajbjT79xDdwLKgYG3wdrAjPJ5qHxTZWfhi/wDB8fh3QV8pNXkZbDTIoYd5NpOCQGZEz3OSOn4V1mq+G9E15IF17R9P1PyAfK+2WqTeXnGdu4HGcDp6CsebwPp1nquhz+G9M0zSoLG/a6uo7a3WHzQbeWIYCLgnMg644z9KhbW/re4L4fk/yOpidpIUd42iZlBMbkZU+hwSMj2JFOrm/GHhrU/Ei6WNK8SXuhfYrxLib7KM/aUHWNuRwffI9VPGOkoGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//9k=)**

**게임 예 (블랙잭)** **회원의 Cash 이용내역**

1. DB 스키마
   1. 관계형 데이터 모델



* 1. 개념 스키마

--멤버 TABLE

create table gmember(

member\_id varchar2(10) PRIMARY key,

member\_pw varchar2(20)not null,

email varchar2(20)not null,

phone varchar2(20)unique not null,

cash\_total number DEFAULT 0

);

--점수 테이블

create table scoreboard(

member\_id varchar2(10),

score\_num number(30),

quizscore number(38) default 0,

undscore number(38) default 0,

total number default 0,

join\_date date DEFAULT sysdate

);

-- 코인(캐쉬) 테이블

create table cash(

cash\_number number PRIMARY key,

member\_id varchar2(10),

cash\_move number,

cash\_date date DEFAULT sysdate,

CONSTRAINT gamecash FOREIGN key(member\_id) references gmember(member\_id) on DELETE  
cascade

);

--JLPT N1 퀴즈 테이블

create table quizboard(

quiz\_num number PRIMARY key,

quiz varchar2(4000) not null,

qoption varchar2(4000) not null,

answer varchar2(100) not null

);

1. 개발 환경 및 사용 기술
   1. 개발 환경
      1. OS : Microsoft Windows 10 (버전은 상이함)
      2. 언어 : JAVA, SQL(Oracle)
      3. 데이터베이스 : Oracle RDBMS(Local 환경)
      4. 사용 프레임워크 : MyBatis
2. 역할 분담

* 박선미 - 퀴즈 문제 구현, 퀴즈 데이터 베이스 관리
* 정민우 - 전체적인 구조 관리 및 자료 작성, 블랙잭 구현
* 홍세의 - 프로젝트 진행 및 구조 관리, UP&DOWN 구현
* 홍현우 - 데이터 베이스 및 프로젝트 구성, 홀짝 구현