**모바일 프로그래밍 텀프로젝트**



과목 이름: 모바일프로그래밍

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**링크:** [**https://www.youtube.com/watch?v=12It7GWUH\_g**](https://www.youtube.com/watch?v=12It7GWUH_g)

**1. 앱 제목**

나를 찾아줘

**2. 앱 개발 목적 및 필요성**

현재 자신의 기분에 맞춰 게임, 영화를 추천해주는 앱

**3. 관련 기존 앱들의 문제점**

1. 카테고리가 하나씩 정해져 있어, 각 분야마다 일일이 설치해야 한다.

2. 테스트결과가 정확하지 않다.

**4. 앱 구현 계획(앱 기능, UI 및 코드 구조, 앱의 장점)**

**4-1 앱 기능**

테스트를 통해 사용자의 기분, 분위기, 상태를 파악하여 각 분야에 맞춰 추천해준다.

**4-2 UI 및 코드 구조**

**1. 각 카테고리(게임, 영화)의 각각의 질문마다 1개의 xml코드 사용**

=> 각각의 질문마다 1개의 xml을 코드 사용시 너무 비효율적이었다.

질문 xml은 1개만 만들어서 질문을 바꿀 때 마다(페이지가 바뀔 때 마다) TextView(질문), Button(질문에 대한 답)을 바꾸어서 처음에 생각한 비효율적인 방법을 효율적인 방법으로 바꾸었다.

**2. 각 카테고리 마다 각각의 전역변수를 이용해 테스트점수를 따로 지정**

=> 전역변수 클래스 var.java를 따로 만들어서 쉽게 해결할 수 있었다.

**3. 테스트점수에 따라 각각의 결과를 보여준다.**

**4-3 앱의 장점**

1. 하나의 앱에 게임, 영화 2개의 추천 카테고리가 있다.

2. UI가 예쁘다.

3. 재미있다.

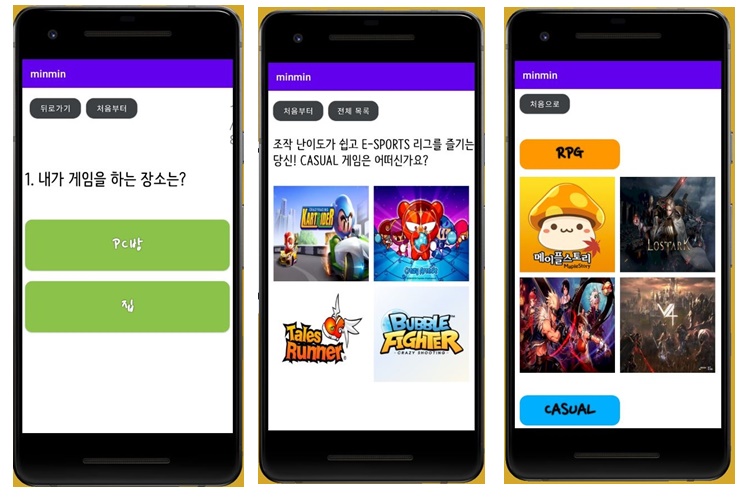
4. 정확하다

**[ 디자인 ]**

**0. APP 실행화면**



인트로 & 메인화면이다. 인트로는 팀 로고와 팀명을 활용해서 제작했다. 메인화면은 상단에 APP 이름을 노출시키고 하단에 ImageButton View를 이용해서 ‘**게임버튼’**과 **‘영화버튼’**을 만들었다.



실행화면은 다음과 같다.

먼저, **res 하위폴더에 font 폴더를 추가**하여 원하는 폰트를 사용할 수 있도록 하였다.

**buttonshape.xml과 buttonshape2.xml**을 생성해 원하는 버튼의 모양, 클릭효과를 적용하여 버튼들을 구성했다.

상단의 “뒤로가기, 처음부터, 전체목록” 버튼에는 **buttonshpae.xml을 적용하여 단순 모양과 관련된 옵션**만 적용했고 직접 선택을 하는 버튼에는 **buttonshape2.xml를 적용하여 원하는 색상으로 ripple효과**가 발생할 수 있도록 설정하였다.

결과화면 및 전체목록에서는 해당되는 사진들이 격자형식으로 나온다.

**1. buttonshape.xml**

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGxlbm92b19pZGVhcGFkAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADOTMAAJKSAAIAAAADOTMAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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RRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAahuJ2d/ttvItq/BGwgR+hFUbu3+y3Tw7t23HOMds1bksdTePa5d1PVTLn+tRar/wAhOX8P5CgCnRRRQAUUUUAFPf8A1Mf40ynv/qY/xoAZRRRQAUUUUASwJC8h+0ytEgGcqm5j7AZA/Mirc+mKktl5Fx5kN5jY5Tay/Nggrk9D707SL+GxW5EhlikljCx3EKgvEc84yR1HvU17q8NxLpzBrmX7I3zyTkFn+bOev6dvU1qlGyuPTlYk+iQxyXsMN751xZqzuoiwpAODhs9eemPxqvFYQpZRXV9cPCszERLHFvZsdSckADPHWpxqsA1DVZ9sm28jkSMYGQWORnmo1vLObT7WG8WbfaltqxgYkBOcEk/Lz3waI8t0/wCtyny30LmoWP8AaPjC6thKIsktvYZAwmefyrOns7ZbTzrS885hJsaNkCN0+8oySR+X0q2dXgPiKe/2SCKRXAXAyMpt9fWscHBBHUVPuhJrVmuuhx/bBYNebb8r/q/KzGGxnaXznOPbGaj0JSNYiVLqS1uS+yJlhWQAng5yRj9asHVbI6mNV2Tm74YwbV8vzMYzuznHfGPxqppNza22pR3l5JMGikDhYog27nPUsMfrVx5VNCduhDDZS3mqfZIiDI0hG5uBx1J/nWisdrH4f1IWlxJPiSIEvEEHVuR8xz+OKrQ3ttZa0l3AZZotzF1dAhw2QQMMexpzXljDpN1Z2ondpmRvNkUL0J4wCcdevOfaojZQ13K0uyO0063udHv7yXUIYJrXZ5Vs4+afccHHPb6H8KXSNJbVJJmeZba1tY/NuJ2UtsXIHAHUknAH8qS0m0tNHv47y2mkv32fZJUbCx4PzZGe49j+FTaHqsFil7aX8cj2d9EIpTFjehBDKyg8HBHQ4+oqOpmQNYW9zfW1to9xLdPcOIws0AiYMSAOAzDHPXPY8DjOk3hq1lkvbWx1M3F/YxtJJEbfbG+z74R9xJx7quaoJdWml6paXekSzzvbyCUtcRLHkgggbQzenXPfoMc6R1nSLK6v7/S1vGuryN40hnjRUt/MB3HcGJfGSB8q9efSh7aef/ADr93/AASXwLe3SapNZpczLava3DtAJCEZvKPJXoTwPyrG0fSX1a5lXzVggt4mnnmYE+XGOpwOp5wB3PpV/wAMajpek3TXd/Neea0UsXlQ2ysuHQrncZB69MfjUWmajYaXf3UWbi5068tzbysYljlAODuC7mGQQO/PtQ9/l/mC2+f+RHeaNAujDVNMvHurYTeRKs0PlSRuQSOAzAggdc1ek8Mafb3NpbXmuJDPeW6TR5g+SPcm4CRiw288ZG71OKqXepWUGgnSdL8+VJZxPNPcRrGSQCFUKC2AM5znnPQVDr2pQ6pd28turqsVpDC28AEsiAHoTxxR/X4f5h/X4/5FOKzkm3bGhG04O+dF/LJGfrTlWTT7yGV/LcowcCOVXzg+qk4pkF3JbqVjWEgnP7yFHP5sDST3D3DAyCMEDH7uJU/9BApa3FuXL3VmvLWSExbQ9y0+d2cZGNvT9avaZa2DQ2BlLOzyuzBoFIbaoypO7p/P0rArZt9cEMECGNMxRSA4gj+8wIUjjp0z6+9RKNo2iS12GaZFE0l6bfZLsg3RtcxoADuHZiQPzqvNFPcXkEMxtg0jBVMAjwMnHOz+tLZ3sStd/a9yi4i2ZhiX5TkH7uQO1QF4ba4ils5ZJCjBv3kYTBByOjGmk+Yeupo6ha3EYuIrW1gW2gyGACNKAD95urjP4CltYZz4fSSytFnmNwysfsyykLtHqDioWv7SOa6ubYTebcoymNwAse773zZy3twKrNdodGjtAG8xZzITjjBAH9KlJ2sKxPp+P7dX+0I4ozhtySxqig7TjKkADnFRX8d2scb3McIjbOx4EjCt68pwfpVWIRNIBO7oncogY/kSP51bubuH+z47G18xo1kMrSSAAsxGOACcDHuaprVD6lk+RL4cuJI7aOMxzIqtjLdDnLH19sD2qtp0EeHvbtc28H8J/wCWj9k/qfapornT00mWzaa5zJIshYQLxgdPv81Vi1G4htxAnlNEGLBZIUfBPfkGlrrYWti3qzpaeIvNhiRFjMcgRBtGdqn8KjvdWa8tZITFtD3LT53ZxkY29P1pur6gNRvPMjUKgUAZjVW+6AckdeRVCnGOiuNLRXCnRRPPMkUKl5JGCqoHLE8AU2tzwtLb2F7Pq11JFnT4TJBE7DMsx4QAHrgnccdMU5y5YtlpXdh/iyVbe6t9FgbdBpUXkkg8NMeZW/764/4CKjv9DhfTf7V0GV7qxUAXEbgedasezgdVPZhx2ODWK7tJIzyEszElie5rbvdfjh07+y/D0clnZOo+0SMcTXbY53kfwjJAQcdzk1jyzioqO/Xt5/1+hpeLbvt/VjDoooroMgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAL17/AMg+z/4H/OqNXr3/AJB9n/wP+dUaACiiigAooooAKczAxoB1Gc02igAooooAKKKltraW8u4ba2XfNM4jjXIGWJwBk8daAIqKfPDJb3EkEy7ZI2KOuc4IOCKlnsLm3s7a6mj2w3QYwtuB3BTtPHUc+tK6+8dmV6KuT6Ve22l22ozQ7bS6Zlhk3g7ypweM5HPqKp0Jp7BZoKKKKYgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDVlub2KIv9vt3x/ChUk/pVbVv+QpL+H/oIqX7Alu7TXDBrdeUweZPQVTuZzc3DTMApbHA+mKAIqKKKACiiigArqbrTbbw1oVvcy28epXeowny7gYe2tgcggEcPKOevCnHXrXLVfsNZutPtbm0TZLaXKlZbeZdyE44YDsw6gjB4rKpGUlp/w5cGk9TV0y10uHwXdatfWH2u5jvVgiVpWVCChOGCkEjjPBBzjnGRSaxpFv8A2no7aXZSFNTtopvscTkkMSVZVLZOCVJBOcZqTTdRs7TwBdQ3ENpdytqMbLbTyODt8tvnARlbjpnpzWevibUE8QW2roYkmtdogjVMRxoOAgH93BI9eeueaxSm5ya7/Lb/ADK91QXp+v8AkbGoaLb/APCLX93Lp9jY3llNGo+w3wnDBiQQ6+Y5Ugj2/SpdNgsNF1rw3biwiu7q8NvcyXM0kgMfmONqoqso4Az827JPpxWJceJJJdLutPt9OsbO3unV5RAj7iynIO5mJ/DOB2AyaktfFl3aLZOtrZyXViojgupI2MioDkL97b3IzjIB4IpclVxs+/fy/wAxycL6dv1/yLYsbRrvxJqt/D9pSxnKx25cqsjySMAWK4OBgnAIJ45pviSaO48L+HJIraK1Qx3GIoS5Vf3p6bmJ/Ws621+e3uL95Le3uIdQJNxbyhtjHduBG1gwIPTBpuqa9c6vDaRXMUCRWYZYkiQqApOdvXoOnr6knmnGnPmjfp/8jb8xynF81uv+ZoanbWM3guy1S30+GzuJLySB/JeQqyqqkcOzc5JqUQaTp3g3TNRn0tby8uppo282Z1j2qV5IUg55wMEDk5B4qpN4mWbR10z+xNOS2R2kjCtPlHYAFgTL7Dg5HtVC41We40az010jENm8jxsAdxL4znnHb0qowm7J3tfv0JvH8DpR4Xsf+FkXukRxyTQQo80FsGOZSI96xbuoHOM9cD1qv4gsrOy8L2LzaJFpWq3Ez74i828RLjDbHc7QTkcjnHFSaHriap4p1PUNWe3hmu7GWNIWby4Jn2BQjMT8oIGc7hyByKrava6XF4d8yWDT7TVDcARQ6ddtcK0WPmLnzHC84xyCeeKxXOpxjNvZffrfr9+jNPdabXd/1/kczRRRXecwUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAF69/5B9n/wP+dUavXv/IPs/wDgf86o0AFFFFABRRRQAU4rhFbP3s02nv8A6mP8aAGUUUUAFFFFABRRRQAUUUDk0bgFFWdRs/7P1Ga13+Z5ZxuxjPHpVagNgooqa0igmukS6uPs0Rzul2F9vHoOtNagQ0UrABiFORng461Zhs/O066uv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버튼의 **모양과 크기**를 원하는대로 설정하였다.

**2. buttonshape2.xml**

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGxlbm92b19pZGVhcGFkAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADODMAAJKSAAIAAAADODMAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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vIpR2RyCynqCR1B70n2mf7L9m86T7Pv8zyt52bsY3Y6Zxxml7F8yk99Pw3+8r2i1S8/xR6PodncWWrpol9qd5dr9gZp7CO1DWiKYiRk78A52nds5Y9cnNYOlahc6Z8N72exk8mc6nGizKPnjzG2Sp6qe2RzgmsEa7q4t4oBql75MIAjj+0PtTjHAzxwcVf0/wASS6X4UuNPsLi7tbyW8WbzYHKDYEIKkgg9SOOnFZOjOzb1vb8GOM43S7X/ACsdE0FrfeOvDQ1tFaeeyja8WQcyS4bZvHcnCZB655rM1fXba50nULLUb7VNQvWlDQC8tFj+yuG+cD96xUEZG0DHArlJZZJ5nlmdpJHYs7ucliepJ7mrt1rur31ube91S9uISQTHNcO68dOCcVaoNNO+3+d9P66C9p/Xysb3hjf/AGJc/wDCQY/4RvJ3eZ9/zsHb9n/6aZ6/w4zurlZvLE7+QXMW47C4AYrnjIHfFK880kMcUkrtHFny0ZiQmTk4HbJqOt4wtJy7/wBfeZuXupBRRRWhIUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAEtt/x9w/76/zouf8Aj7m/32/nRbf8fcP++v8AOi5/4+5v99v50AWb3/kH2f8AwP8AnVGtL7bFdMbeZRHAeIzjlD61RuIGtrhonILLjJHTpmgCOiiigAooooAKUsSoB6DpSVfsNGutQtbm7TZDaWylpbiZtqA44UHux6ADJ5pOSirsaTbsihRT4YZLieOGFS8kjBEUdyTgCtXxBZ2lvr39m6YqD7OFt5JWkwJZRw7EscKN2R2GBSckpKIWurmPRW14g0/7DDp3/Etjs/Mt+ZYr1bhblgcGQFSQvPYVcj8IPJ4T/tET2oujdiIA6hbiPyym7kluGz2JzjtUe2goqTZXJK9v67nM0VctdJvL2+ktLWNJJIgzSMJU8tFXqxkztC++cdPWpJdC1GLULayaAGa72+RslRklycDa4JUjPGc1fPG9rk8rM+ittvBuvLF5jWHy+Wz/AOtTJCglhjd94AHK/e4PFU7XRrq+0u5vrTZMtqczQo2ZET/npt7r2JHTvU+0g1dMfJK9rFCiiitCQooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCW2/4+4f99f50XP/AB9zf77fzotv+PuH/fX+dFz/AMfc3++386ALcwupISv9nIm7+JISCKj1b/kKS/h/6CKmu7iZbG0ZZpAW35IY881nM7OxZ2LMepJyTQAlFFFABRRRQAV1N1qNn4k0K3tmlj0u702EiG3Dbba4AySRn7sp9STuOOQa5aionBSt3RUZcp0PhRVsTe69MBt02L9xkfeuH+WMe+OW/wCA1hRxvdXKoGXzJGxukkCDJ7lmIA+pNH2mf7KbbzpPs5fzDFvOzdjG7HTOOM1HQotScgv7tjrPEdoW8NaIsd1YSvY2zpOkV/C7KTISAAHJbgjpmoNOMeoeBrjS4bi3jvEv1uQlxOkIdNhXhnIBIPbOa5qis1SfLa/W/wCNyufVPyt+FjqfDVzb2lnrek3a2T3F0iCIXM5WGQxsSU8xGAGeoO4KSBzViHUJIte8O295DpVlaWd2JENneCZVDOpYs3mvgcZ5I71x1FDopycu/wDlYXP7tj0ez1ayCab5l/b5WbU2k3TLxvU7See/b1rl/DEtrpUw1y7vmja0kHk2lu+Jrh+uD/dj/vE9RkAGsCipjh1FNX3/AM3/AJlSqc1ros6jeDUNRmuhbQWvmtu8m3UqifQEnFVqKK6EklZGbbbuwooopiCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAltv+PuH/fX+dFz/AMfc3++386Lb/j7h/wB9f50XP/H3N/vt/OgC/cRuNNtSVIC7s+2TxUun/wDHu3+9/QVWWe7jneW6hkMUnEispAxWzpekz3l5JaWKFtp3M7kBY12glmboAPWi6SuyJptWRDRVzUobK3nWLT53uQi4kmK7Vds/wjrjoMnr7Vfs86Z4ZubzlZr9vssJ/wCmY5kP/oK/nUupaKa6mKh71mYlFattpNs2iDU7y+MEZnMPlpDvdiADkDIB685Ixjv0qC6s7W01QwNe+da4BFxboHJBGR8u4c9iM8c01Ui3ZC5JJXKNFbXilZxq6SXV41481vHIJWhEZ2lcgFQSOBVp/CtuuqJpg1TdezRh4kEHy5KbgrNu+UnpwD29cVHtoqKlLr6/5Feyk5WRzdFa1lo0M+jz6jeXv2aKCYRMgi3sxKk/LyATx0OOMnPaotSsG0i6tpLa5aSOaJLi3mUbGwfbJwQQe56VSqRcuVbi9nJLm/rsZ1FdD4juJrrRtCmuZXmla3k3PIxZj+8PUmoIdDgCWSX981tcXyh4Y1h3qqk4Uu24bcn0B45qVWXLeWm/nt/ww3Td7Lsn99v8zFrc8KeH7XxLqc1lfSTRxrAZAYWAbIZR3B9ai0mDTbXxA1p4mSYW6l4ZGgbBifpu6cgHt/Poez8LeG7rw74vkErLcWlxZM9rdR/cmTenPscEZHv+NT9Yp+1VJ6Nq67P09OqHGm737HjVFFFbG4UUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUASQf8AHzF/vj+dE/8Ax8y/75/nRB/x8xf74/nRP/x8y/75/nQBYks7lol8zUI2RuzSnBx/OtjTtWuNPvpp7Cb5Xba6/eSVdoBVl6MOvWsS5YLp9pn/AG/506zu4IoSsj4O7PQ0NJqzIne2hvXz2d7eRvp8JtPNA8yJ3Hlo+f4WP8PQ89OaseIbmGS9jtLNw9rYxiCNlOQ5HLPx6sSfyrA/tC2/56/+On/Cj+0Lb/nr/wCOn/CpUEmn2Mrys9NzZe/ibw5Fp4V/NS6aYtgbcFQPz4qpbrA0wF3JJFF3aKMOw/AsP51R/tC2/wCev/jp/wAKP7Qtv+ev/jp/wqlFJOwnzO10dHr99p2ovDNZy3XmRQRwbJYFUEKuN2Q5/LH41s6ze2OleKVvy1xNeQwRGODylEYbylAJfcScdcbfbPeuD/tC2/56/wDjp/wqSbV47iTzLi5eV8Abn3McAYHJ9qw9gtFfSzX32NFOWrtrp+B1NiLaTwPd/bppYkOoId0UQkJOxuxZf51nalf2+oXVrGokhs7WJYEO0M5UEksRkDJJJxn8e9Y41eMW5gFy4hZt5j+baW6Zx0zUf9oW3/PX/wAdP+FXGklJyb/q1hOUnFK39XudLql7pd3pNlb2094ZbKJkXzLZVWTLFuSJDjr6GrCeIzNp9pE+qapp8ltEIStp80cij7rY3rg9j1zgVyX9oW3/AD1/8dP+FH9oW3/PX/x0/wCFL2MbWfr94c873S6WN/SNQsLbXje61bS6pEu5wjvgyv8Awl85yM9Rn8+h6vwdrl9r/ja6vNRl3v8AY2CIowsa70wqjsBXmv8AaFt/z1/8dP8AhWho/i1/D11Jd6d5Mszx+XtmRiuCQexHpR7Cn7T2tvetb0Xl287bhFz2OdopvmL60eYvrWpsOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQA6im+YvrR5i+tADqKb5i+tHmL60AOopvmL60eYvrQBNB/wAfMX++P50T/wDHzL/vn+dNt3U3UXP8Y/nRcOoupef4z/OgCS9/5B9n/wAD/nVGiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAJbb/j7h/31/nRc/wDH3N/vt/OiigD/2Q==)

color.xml에 colorHighlight 색상을 지정한 뒤 해당 색상이 ripple 효과가 발생할 때 나오도록 설정하였다.

**3. game.xml** (movie.xml은 형식이 동일하므로 생략)

텍스트이(가) 표시된 사진

자동 생성된 설명buttonshape와 buttonshape2를 이용하여 원하는 버튼 모양, 색상, 클릭효과를 구현한 코드이다.

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGxlbm92b19pZGVhcGFkAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADMzcAAJKSAAIAAAADMzcAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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폰트 역시 원하는 폰트를 적용시킨 코드이다.

이후의 gameresult.xml과 gamelist.xml도 동일하게 buttonshape.xml, buttonshape2.xml, font 파일을 적극적으로 활용하였다.

**4. font**

텍스트이(가) 표시된 사진

자동 생성된 설명

Res 하위 폴더로 **font 파일을 만들어 두 가지의 폰트를 추가**하였다.

**메인폰트**는 깔끔하고 가독성 좋은 ‘나눔바른펜’ 폰트를 사용, **서브폰트**로는 ‘나눔손글씨 펜’을 사용했다.

메인폰트는 질문에서, 서브폰트는 답변을 하는 버튼에 사용하였다.

**기능**

**0. 앱 실행도**

gameList.java

gameResult.java

game.java

MainActivity.java

introActivity.java

movieList.java

movieResult.java

movie.java

**IntroActivity.java:** 앱 실행 시 첫 인트로 화면

**MainActivity.java:** 게임 또는 영화를 고르는 메인화면

**game.java:** 게임추천에 관련된 설문을 하는 화면 실행

**gameResult.java**: 게임추천에 관련된 설문 8개를 마치면 개개인의 성향에 맞춰 결과 출력

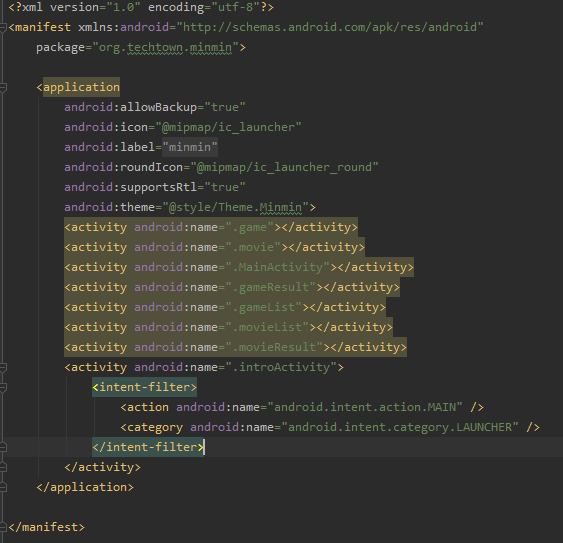
**gameList.java:** 게임의 모든 장르 출력(rpg, casual, fps, aos, sports), 처음으로 버튼(MainActivity.java)

**movie.java:** 영화추천에 관련된 설문을 하는 화면 실행

**movieResult.java:** 영화추천에 관련된 설문 8개를 마치면 개개인의 성향에 맞춰 결과 출력

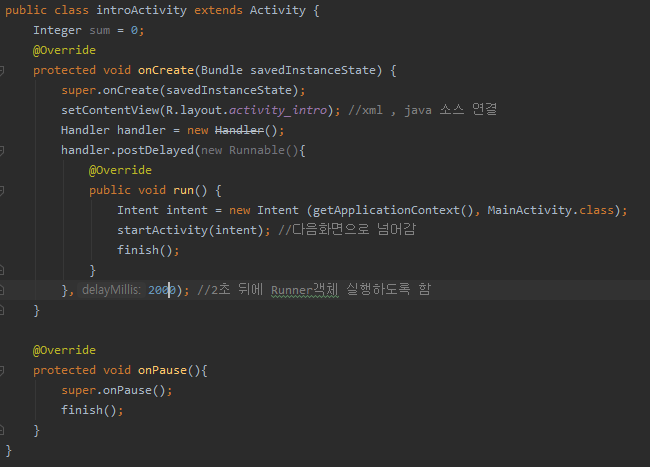
**movieList.java:** 영화의 모든 장르 출력(action, romance, fear, fantasy, comedy, document), 처음으로 버튼(MainActivity.java)

**1. AndroidManifest.xml**



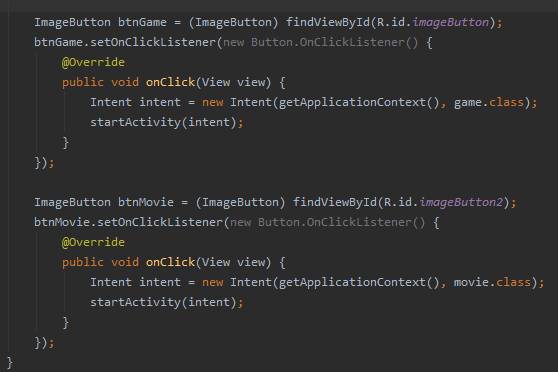
이용한 모든 .java 클래스가 있다. Intro가 먼저 시작된다.

**2. introActivity.java**



앱을 처음 실행 시 인트로가 2초 나온 후 메인화면을 실행한다.

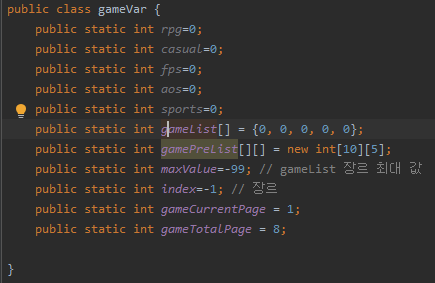
**3. MainActivity.java**



imageButton: 게임, imageButton2: 영화

사용자가 선택하는 버튼에 맞춰 (게임, 영화) 추천하는 설문으로 들어간다.

**4. 게임 변수 (gameVar.java)**

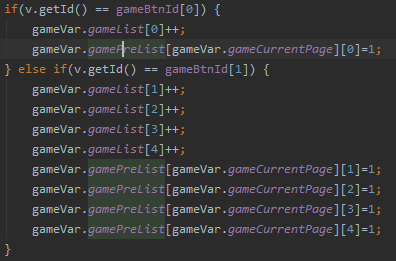


**4-1 game.java (gameList[], gamePreList[])**

rpg, casual, fps, aos, sports는 사용하지 않았지만 gameList에는 이 순서대로 적용된다.

gameList: rpg, casual, fps, aos, sports 순서대로 구성 되어있다.

예를 들어,



gameBtnId[]는 각각의 질문마다 최대 3개의 답이 있는데 순서대로 gameBtnID[0], gameBtnID[1], gameBtnID[2]는 현재 페이지의 첫번째 답, 두번째 답, 세번째 답을 의미한다.

gameBtnID[3]는 뒤로 가기 버튼을 의미한다.

gameBtnID[4]는 처음으로(메인 화면) 버튼을 의미한다.

위의 코드를 보면 첫번째 질문을 클릭 시

gameList[0]++을 하고, gamePreList[gameVar.gameCurrentPage][0] = 1로 설정한다.

즉 rpg의 개수를 올린다.

하지만 두번째 버튼을 클릭 시

gameList[1, 2, 3, 4]++을 하는데, 이 의미는 rpg를 제외한 casual, fps, aos, sports의 개수를 올린다.

이런 식으로 각 질문에 맞춰 정해진 답을 설문하며 마지막에 최대 개수를 세어 가장 많은 장르를 찾는다.

gamePreList배열은 뒤로 가기 버튼을 눌렀을 시 값을 저장 해놓는 배열이다.

예를 들어 위 사진의 첫번째 질문을 클릭 시 rpg의 개수를 늘린 후 gamePreList[현재 페이지][rpg]를 1로 바꿔 놓는다. 그리고 만약 그 페이지로 돌아와서 뒤로 가기 버튼을 누른다면 gamepreList[현재 페이지][rpg, casual, fps, aos, sports]에 저장된 값(1 또는 0)을 뺀다.

gameCurrentPage는 현재 질문하는 페이지, gameTotalPage는 마지막 질문 페이지이다. 이 페이지 다음에는 결과 인텐트를 출력한다.

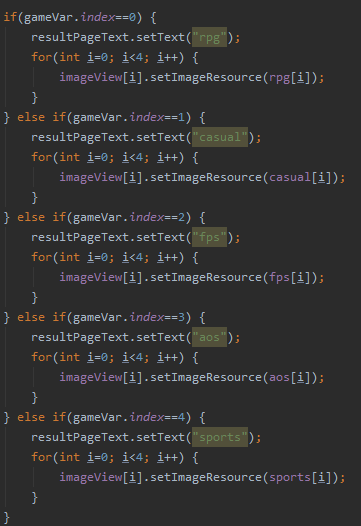
**4-2. game.java (maxValue, index)**



현재 페이지가 8인경우(마지막 질문) 설문에 응답을 하고 gameVar.maxValue와 gameList에 저장된 값을 비교하여 rpg, casual, fps, aos, sports중에 가장 큰 값을 찾은 후

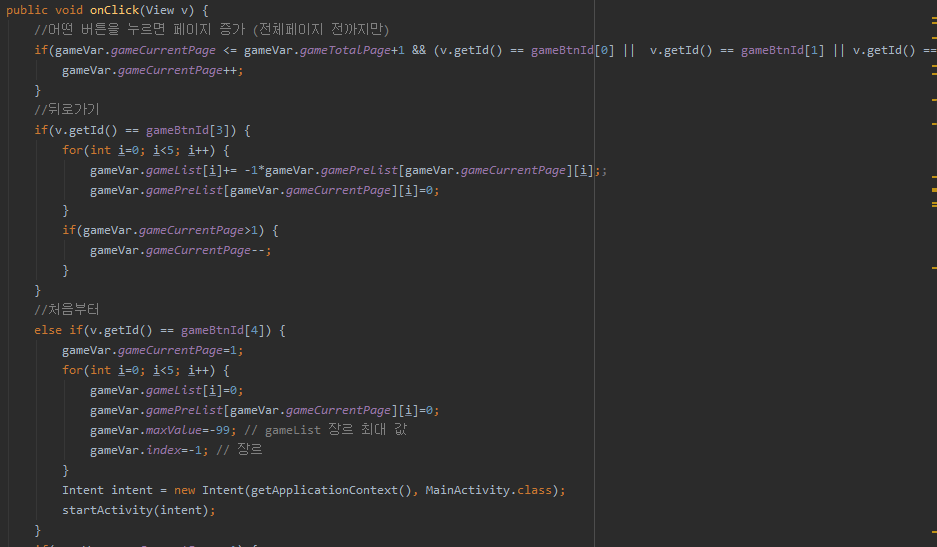
다음 페이지 9로 넘어가 gmaeReulst.calss 인텐트를 시작한다.

**5. 게임 결과 찾기 (game.java -> gameResult.java)**



4. 게임 변수(maxValue, index)에서 찾은 index 값에 따라서 이미지 뷰를 지정한다.

**6. 다음페이지 가기, 뒤로 가기, 처음부터 (game.xml, game.java)**

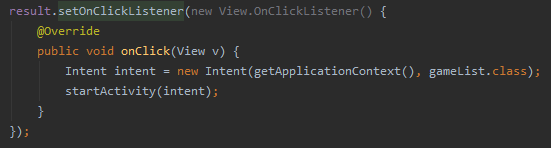


**다음페이지**: 사용자가 질문을 보고 답을 고를 경우, 현재 페이지가 전체 페이지+1와 같을 때까지 페이지를 늘린다.

**뒤로 가기**: 사용자가 뒤로 가기 버튼을 누를 경우, gamePreList에 저장한 값을 gameList에서 빼고, 현재페이지를 1 뺀다.

**처음부터**: 사용자가 처음부터 버튼을 누를 경우, gameList, gamePreList, maxValue, index 값을 전부 기본 default값으로 초기화 시킨다.

**7. 모든 결과 보기 (gameResult.java -> gameList.java)**



다른 결과를 보고 싶은 경우, 전체목록 버튼을 누르면 gameList.java로 이동해 게임에 관한 모든 리스트를 보여준다.

게임, 영화의 java소스는 모두 똑같은 기능으로 작동한다. (도중에 점수의 설계만 다름)