**クラウドプログラミング演習レポート**

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1. **はじめに**

このレポートは、monaca、二フクラmobile backendの両方を利用したプログラムについてまとめたものである。

1. **作成したプログラムの内容**

このプログラムは<https://github.com/toshi0806/monaca_janken>よりmonacaにインポートしたサンプルアプリ「じゃんけんゲーム」を改良したものである。

　カードを1枚選択し、CPUの選択したカードと数字を比べ、数字が大きい方の勝利となる。

連勝した場合、何回連勝したか記録される。

あいこになったり負けた場合、連勝した回数がmobile backendに記録され、連勝した回数が最高であった場合、最高記録が更新される。

「New Game」を押すと連勝した回数が0の状態からスタートする。

「J」は11、「Q」は12、「K」は13を表す。

自分とCPUの選択したカードの数字が同じであった場合、「♤→♢→♡→♧」の順番で強いとする。

ゲームは

* + 1. 「♧」、「♡」、「♢」、「♤」の4つのボタンのうちいずれかを押す。
    2. 1~Kの中から1つ数字が選ばれる。
    3. CPUのカードが決定。
    4. 自分とCPUのカードを比べる。

という順番で進行する。

1. **実行画面**

実行画面を図1、図2、図3に示す。

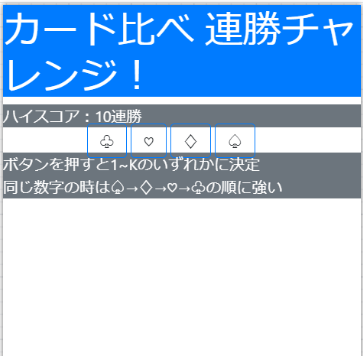


図1.実行画面（ゲーム開始前）

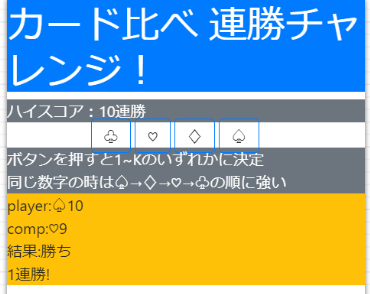


図2.実行画面（「♤」を選択）

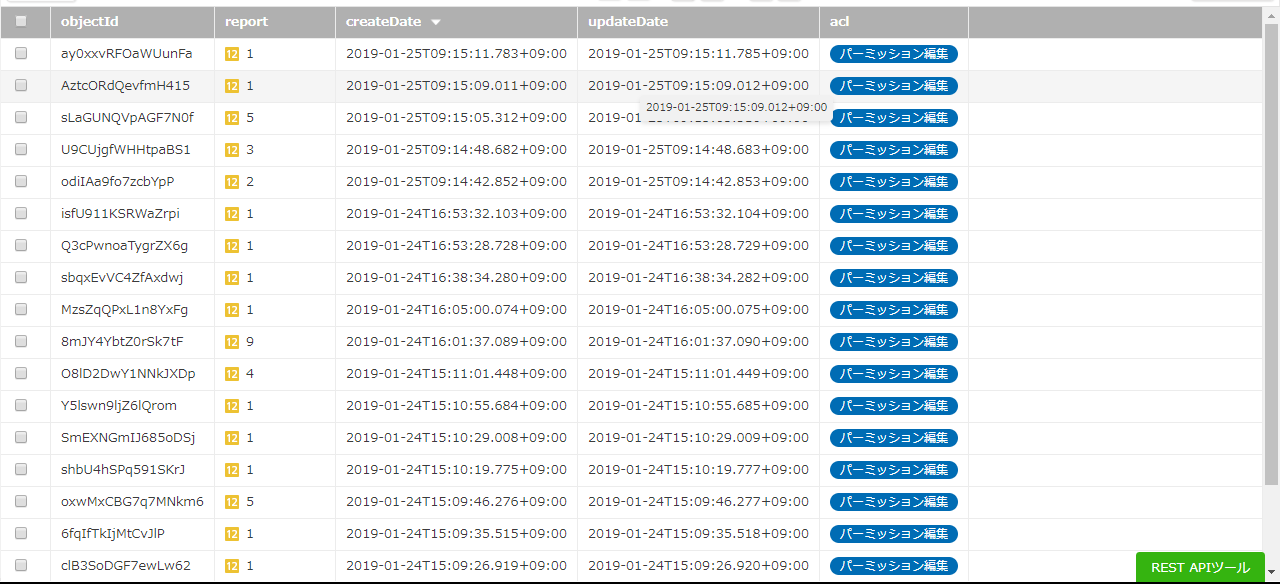


図3.実行画面（ニフクラに連勝数が記録される）

1. **改良点**

今回のプログラムではボタンを押した後に数字が決定するため、押すまで数字が分からないようになっている。ボタンを押す前から数字が分かるようにすれば、どのボタンを押すかが決めやすくなるだろう。

また、プログラムがとても長いものになってしまい、誤りがあっても見つけるまでに時間がかかりすぎてしまうため、もっとプログラムを短くまとめられるようにしたい。

1. **感想**

Githubやニフクラを使うのはこの講義が初めてであったため、まだまだ上手く利用できていないと感じる。

バージョン管理システムを使えば、プログラムが正常に動かなくなった際に過去のバージョンに戻すことが容易にできるため、使いこなせるようにしておきたい。

1. **プログラムのソース**

|  |
| --- |
| 1. <!DOCTYPE HTML> 2. <html> 3. <head> 4. <meta charset="utf-8"> 5. <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=no"> 6. <meta http-equiv="Content-Security-Policy" content="default-src \* data: gap: content: https://ssl.gstatic.com; style-src \* 'unsafe-inline'; script-src \* 'unsafe-inline' 'unsafe-eval'"> 7. <script src="components/loader.js"></script> 8. <link rel="stylesheet" href="components/loader.css"> 9. <link rel="stylesheet" href="css/style.css"> 10. <script src="keys.js"></script> 11. <script> 12. var cardpower; 13. // ハンド用変数（定数） 14. var hand\_c1=0; var hand\_h1=1; var hand\_d1=2; var hand\_s1=3; 15. var hand\_c2=4; var hand\_h2=5; var hand\_d2=6; var hand\_s2=7; 16. var hand\_c3=8; var hand\_h3=9; var hand\_d3=10; var hand\_s3=11; 17. var hand\_c4=12; var hand\_h4=13; var hand\_d4=14; var hand\_s4=15; 18. var hand\_c5=16; var hand\_h5=17; var hand\_d5=18; var hand\_s5=19; 19. var hand\_c6=20; var hand\_h6=21; var hand\_d6=22; var hand\_s6=23; 20. var hand\_c7=24; var hand\_h7=25; var hand\_d7=26; var hand\_s7=27; 21. var hand\_c8=28; var hand\_h8=29; var hand\_d8=30; var hand\_s8=31; 22. var hand\_c9=32; var hand\_h9=33; var hand\_d9=34; var hand\_s9=35; 23. var hand\_c10=36; var hand\_h10=37; var hand\_d10=38; var hand\_s10=39; 24. var hand\_c11=40; var hand\_h11=41; var hand\_d11=42; var hand\_s11=43; 25. var hand\_c12=44; var hand\_h12=45; var hand\_d12=46; var hand\_s12=47; 26. var hand\_c13=48; var hand\_h13=49; var hand\_d13=50; var hand\_s13=51; 27. // ハンド表示用配列 28. var hand\_text = ["♧1", "♡1", "♢1","♤1","♧2", "♡2", "♢2","♤2","♧3", "♡3", "♢3","♤3", 29. "♧4", "♡4", "♢4","♤4","♧5", "♡5", "♢5","♤5","♧6", "♡6", "♢6","♤6", 30. "♧7", "♡7", "♢7","♤7","♧8", "♡8", "♢8","♤8","♧9", "♡9", "♢9","♤9", 31. "♧10", "♡10", "♢10","♤10","♧J", "♡J", "♢J","♤J", 32. "♧Q", "♡Q", "♢Q","♤Q","♧K", "♡K", "♢K","♤K"]; 33. // 勝敗判定用変数（定数） 34. var judge\_win=0; 35. var judge\_draw=1; 36. var judge\_loose=2; 37. // 勝敗判定表 38. var judge = [ 39. 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[judge\_win, judge\_win, judge\_win, judge\_win, 96. judge\_win, judge\_win, judge\_win, judge\_win,judge\_win, judge\_win, judge\_win, judge\_win,judge\_win, judge\_win, judge\_win, judge\_win,judge\_win, judge\_win, judge\_win, judge\_win,judge\_win, judge\_win, judge\_win, judge\_win,judge\_win, judge\_win, judge\_win, judge\_win,judge\_win, judge\_win, judge\_win, judge\_win,judge\_win, judge\_win, judge\_win, judge\_win,judge\_win, judge\_win, judge\_win, judge\_win,judge\_win, judge\_win, judge\_win, judge\_win,judge\_win, judge\_win, judge\_win, judge\_win,judge\_win, judge\_win, judge\_win, judge\_draw], 97. ]; 98. // 勝敗結果表示用配列 99. var judge\_text = ["勝ち", "あいこ", "負け"]; 100. // 連勝数記録 101. var win\_num = 0; 102. // にふくら用おまじない 103. var ncmb = new NCMB(appKey, clientKey); 104. var JankenScore = ncmb.DataStore("report"); 105. var key = "report"; 106. // ハイスコア 107. var high\_score = 0; 108. function club() { 109. cardpower=Math.random()\*13; 110. if(cardpower>=0&&cardpower<1){ 111. janken(hand\_c1); 112. }else if(cardpower>=1&&cardpower<2){ 113. janken(hand\_c2); 114. }else if(cardpower>=2&&cardpower<3){ 115. janken(hand\_c3); 116. }else if(cardpower>=3&&cardpower<4){ 117. janken(hand\_c4); 118. }else if(cardpower>=4&&cardpower<5){ 119. janken(hand\_c5); 120. }else if(cardpower>=5&&cardpower<6){ 121. janken(hand\_c6); 122. }else if(cardpower>=6&&cardpower<7){ 123. janken(hand\_c7); 124. }else if(cardpower>=7&&cardpower<8){ 125. janken(hand\_c8); 126. }else if(cardpower>=8&&cardpower<9){ 127. janken(hand\_c9); 128. }else if(cardpower>=9&&cardpower<10){ 129. janken(hand\_c10); 130. }else if(cardpower>=10&&cardpower<11){ 131. janken(hand\_c11); 132. }else if(cardpower>=11&&cardpower<12){ 133. janken(hand\_c12); 134. }else{ 135. janken(hand\_c13); 136. } 137. } 138. function heart() { 139. cardpower=Math.random()\*13; 140. if(cardpower>=0&&cardpower<1){ 141. janken(hand\_h1); 142. }else if(cardpower>=1&&cardpower<2){ 143. janken(hand\_h2); 144. }else if(cardpower>=2&&cardpower<3){ 145. janken(hand\_h3); 146. }else if(cardpower>=3&&cardpower<4){ 147. janken(hand\_h4); 148. }else if(cardpower>=4&&cardpower<5){ 149. janken(hand\_h5); 150. }else if(cardpower>=5&&cardpower<6){ 151. janken(hand\_h6); 152. }else if(cardpower>=6&&cardpower<7){ 153. janken(hand\_h7); 154. }else if(cardpower>=7&&cardpower<8){ 155. janken(hand\_h8); 156. }else if(cardpower>=8&&cardpower<9){ 157. janken(hand\_h9); 158. }else if(cardpower>=9&&cardpower<10){ 159. janken(hand\_h10); 160. }else if(cardpower>=10&&cardpower<11){ 161. janken(hand\_h11); 162. }else if(cardpower>=11&&cardpower<12){ 163. janken(hand\_h12); 164. }else{ 165. janken(hand\_h13); 166. } 167. } 168. function diamond() { 169. cardpower=Math.random()\*13; 170. if(cardpower>=0&&cardpower<1){ 171. janken(hand\_d1); 172. }else if(cardpower>=1&&cardpower<2){ 173. janken(hand\_d2); 174. }else if(cardpower>=2&&cardpower<3){ 175. janken(hand\_d3); 176. }else if(cardpower>=3&&cardpower<4){ 177. janken(hand\_d4); 178. }else if(cardpower>=4&&cardpower<5){ 179. janken(hand\_d5); 180. }else if(cardpower>=5&&cardpower<6){ 181. janken(hand\_d6); 182. }else if(cardpower>=6&&cardpower<7){ 183. janken(hand\_d7); 184. }else if(cardpower>=7&&cardpower<8){ 185. janken(hand\_d8); 186. }else if(cardpower>=8&&cardpower<9){ 187. janken(hand\_d9); 188. }else if(cardpower>=9&&cardpower<10){ 189. janken(hand\_d10); 190. }else if(cardpower>=10&&cardpower<11){ 191. janken(hand\_d11); 192. }else if(cardpower>=11&&cardpower<12){ 193. janken(hand\_d12); 194. }else{ 195. janken(hand\_d13); 196. } 197. } 198. function spade() { 199. cardpower=Math.random()\*13; 200. if(cardpower>=0&&cardpower<1){ 201. janken(hand\_s1); 202. }else if(cardpower>=1&&cardpower<2){ 203. janken(hand\_s2); 204. }else if(cardpower>=2&&cardpower<3){ 205. janken(hand\_s3); 206. }else if(cardpower>=3&&cardpower<4){ 207. janken(hand\_s4); 208. }else if(cardpower>=4&&cardpower<5){ 209. janken(hand\_s5); 210. }else if(cardpower>=5&&cardpower<6){ 211. janken(hand\_s6); 212. }else if(cardpower>=6&&cardpower<7){ 213. janken(hand\_s7); 214. }else if(cardpower>=7&&cardpower<8){ 215. janken(hand\_s8); 216. }else if(cardpower>=8&&cardpower<9){ 217. janken(hand\_s9); 218. }else if(cardpower>=9&&cardpower<10){ 219. janken(hand\_s10); 220. }else if(cardpower>=10&&cardpower<11){ 221. janken(hand\_s11); 222. }else if(cardpower>=11&&cardpower<12){ 223. janken(hand\_s12); 224. }else{ 225. janken(hand\_s13); 226. } 227. } 228. function janken(player\_hand){ 229. // コンピュータの手を決定 230. comp\_hand = Math.floor(Math.random() \* 52); 231. // 勝敗判定 232. result = judge[player\_hand][comp\_hand]; 233. // 結果表示 234. msg="player:"+hand\_text[player\_hand]+"<br>"+ 235. "comp:"+hand\_text[comp\_hand]+"<br>"+ 236. "結果:" + judge\_text[result]; 237. $("#result").html(msg); 238. // 勝敗ごとの処理 239. if(result == judge\_win) { 240. win\_num++; 241. $("#result2").html(win\_num + "連勝!") 242. } else { 243. gameover(); 244. } 245. } 246. function newgame() { 247. // ハイスコア表示 248. JankenScore.order(key, true).fetch() 249. .then(function(result){ 250. high\_score = result.get(key); 251. $("#highscore").html("ハイスコア：" + high\_score + "連勝"); 252. }) 253. .catch(function(error){ 254. $("#highscore").html("ハイスコア：" + high\_score + "連勝"); 255. }); 257. win\_num = 0; 258. // ハンドボタン表示 259. $(".hand").css("display", "inline"); 260. // ニューゲームボタン非表示 261. $("#newgame").css("display", "none"); 262. $("#result2").html(""); 263. $("#rule1").html("ボタンを押すと1~Kのいずれかに決定"); 264. $("#rule2").html("同じ数字の時は♤→♢→♡→♧の順に強い"); 265. } 266. function gameover() { 267. var msg = "GAME OVER<br>"; 268. if(win\_num>0) { 269. JankenScore.order(key, true).fetch() 270. .then(function(result){ 271. high\_score = result.get(key); 272. if(win\_num > high\_score) { 273. $("#result").html("ハイスコア更新!"); 274. } 275. }) 276. .catch(function(error){ 277. }); 278. // スコア記録 279. db = new JankenScore(); 280. db.set(key, win\_num).save(); 281. msg += win\_num + "連勝でした。<br>"; 282. } else { 283. msg += "1回も勝てませんでした。<br>次は頑張ろう"; 284. } 285. $("#result2").html(msg); 286. // ハンドボタン非表示 287. $(".hand").css("display", "none"); 288. // ニューゲームボタン表示 289. $("#newgame").css("display", "inline"); 290. } 291. // ゲーム初期化 292. $(function(){ 293. newgame(); 294. }) 295. </script> 296. </head> 297. <body> 298. <h1 class="text-white bg-primary">カード比べ 連勝チャレンジ！</h1> 299. <div id="highscore" class="text-white bg-secondary"></div> 300. <div class="mx-auto" style="width: 200px"> 301. <a onclick="club();" class="btn btn-outline-primary hand" role="button">♧</a> 302. <a onclick="heart();" class="btn btn-outline-primary hand" role="button">♡</a> 303. <a onclick="diamond();" class="btn btn-outline-primary hand" role="button">♢</a> 304. <a onclick="spade();" class="btn btn-outline-primary hand" role="button">♤</a> 305. <a onclick="newgame();" class="btn btn-info text-white" id="newgame" role="button">New Game</a> 306. </div> 307. <div id="rule1" class="text-white bg-secondary"> 308. </div> 309. <div id="rule2" class="text-white bg-secondary"> 310. </div> 311. <div id="result" class="bg-warning"> 312. </div> 313. <div id="result2" class="bg-warning"> 314. </div> 315. </body> 316. </html> |