プログラミング実習 II レポート課題第6回

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1 課題 6-1

1.1 source

```
//the definition of struct ColoredCircle
 typedef struct ColoredCircle {
   /* 自分で定義する。必要なのは点の座標 xi, yi, 半径 radius および色情報 r, g, b */
 int xi, yi;
 int radius;
 unsigned char r, g, b;
 } ColoredCircle;
 //display function
 void display(void)
{
   int i;
    glClearColor(1.0, 1.0, 1.0); /* ウィンドウを消去するときの色を設定 */
    /* ウィンドウを消去... glClearColor で指定した色で塗りつぶし */
    glClear(GL_COLOR_BUFFER_BIT);
   /* for 文で円の個数だけ drawCircle 関数を呼び出して円を描画。自分で実装 */
   for(i=0; i<g_NumCircles; i++){</pre>
      \label{local_constraints} drawCircle(g\_ColoredCircles[i].xi, g\_ColoredCircles[i].yi, g\_ColoredCircles[i].
          radius, g_ColoredCircles[i].r, g_ColoredCircles[i].g, g_ColoredCircles[i].b);
   glutSwapBuffers(); /* ここまで指定した描画命令をウィンドウに反映 */
//ColoredCircle.c
#include <stdio.h>
#include <math.h>
#include "ColoredCircle.h"
extern void drawCircle(int xi, int yi, int radius, unsigned char r, unsigned char g,
   unsigned char b);
extern void display(void);
void SetColoredCircle(ColoredCircle *c, int xi, int yi, int radius, unsigned char r,
   unsigned char g, unsigned char b){
 c \rightarrow xi = xi;
 c->yi = yi;
 c->radius = radius;
 c \rightarrow r = r;
```

```
c \rightarrow g = g;
 c->b = b;
int SaveColoredCircles(const char *filename, int n, ColoredCircle circles[]){
 FILE *fp;
 int i, printok;
 if ((fp = fopen(filename, "w")) == NULL) {
   fprintf(stderr, "%のオープンに失敗しましたs.\n", filename);
   return 0;
 }
 for(i=0; i < n; i++){
   xi, circles[i].yi, circles[i].radius, (int)circles[i].r, (int)circles[i].g, (int
      )circles[i].b);
     if ( printok < 0 ) {</pre>
      fprintf(stderr, "[%dファイルの書込みに失敗しました].\n", i);
      fclose(fp);
      return 0;
     }
 }
 fclose(fp);
 return 1;
}
int LoadColoredCircles(const char *filename, int *n, ColoredCircle circles[]){
 FILE *fp;
 int i=0, R, G, B;
 if ((fp = fopen(filename, "r")) == NULL) {
   fprintf(stderr, "%のオープンに失敗しましたs.\n", filename);
   return 0;
 circles[i].yi, &circles[i].radius, &R, &G, &B) != EOF){
   circles[i].r = (unsigned char)R;
   circles[i].g = (unsigned char)G;
   circles[i].b = (unsigned char)B;
   i++:
   (*n)++;
 fclose(fp);
 return 1;
//Makefile
coloredcircle: circles.o ColoredCircle.o
```

1.2 result

図 1 最初

```
[1] 3324
s1811433@7C202-P043:~/prog2/06/06kadai$./coloredcircle
added circle at (82,191), radius = 8, color = (103,198,105)
added circle at (122,182), radius = 17, color = (81,255,74)
added circle at (129,160), radius = 16, color = (41,205,186)
added circle at (92,120), radius = 11, color = (242,251,227)
added circle at (73,141), radius = 13, color = (124,194,84)
added circle at (75,131), radius = 18, color = (124,194,84)
added circle at (78,110), radius = 18, color = (51,159,201)
added circle at (124,125), radius = 15, color = (118,90,46)
added circle at (166,145), radius = 12, color = (102,50,13)
added circle at (1470,94), radius = 15, color = (49,88,163)
added circle at (1470,70, radius = 12, color = (37,93,5))
added circle at (146,68), radius = 9, color = (88,233,94)
added circle at (152,117), radius = 11, color = (171,178,205)
circles saved in "circles.txt"
```

図 2 数回クリックしたあとに s を押した

```
Polka dots

| S18114330/C202-P043:~/prog2/06/06kadat\> ./coloredcircle added circle at (82,191), radius = 8, color = (103,198,105) added circle at (122,182), radius = 17, color = (81,255,74) added circle at (129,160), radius = 16, color = (41,205,186) added circle at (92,120), radius = 11, color = (242,251,227) added circle at (73,141), radius = 13, color = (124,194,84) added circle at (78,110), radius = 18, color = (27,232,231) added circle at (78,110), radius = 18, color = (51,159,201) added circle at (124,125), radius = 15, color = (51,159,201) added circle at (166,145), radius = 12, color = (102,50,13) added circle at (170,94), radius = 12, color = (49,88,163) added circle at (144,67), radius = 12, color = (37,93,5) added circle at (196,68), radius = 9, color = (88,233,94) added circle saved in "circles.txt"

| Circles cleared | Circles.txt" | Cir
```

図3 スペースキーを押した

```
added circle at (82,191), radius = 8, color = (103,198,105) added circle at (122,182), radius = 17, color = (81,255,74) added circle at (129,160), radius = 16, color = (41,205,186) added circle at (92,120), radius = 11, color = (242,251,227) added circle at (73,141), radius = 13, color = (124,194,84) added circle at (75,131), radius = 18, color = (27,232,231) added circle at (78,110), radius = 8, color = (118,99,46) added circle at (124,125), radius = 15, color = (51,159,201) added circle at (166,145), radius = 15, color = (102,50,13) added circle at (170,94), radius = 15, color = (49,88,163) added circle at (144,67), radius = 12, color = (37,93,5) added circle at (152,117), radius = 9, color = (88,233,94) added circle at (152,117), radius = 11, color = (171,178,205) circles saved in "circles.txt"
```

図4 1を押した

2 課題 6-2

2.1 source

a.

```
#include <stdio.h>
#include <time.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include "header.h"
int main(int argc, char *argv[]){
      QuizDataO quiz[NUMQUIZ];
      int i=0, num;
      FILE *fp;
       if((fp = fopen(argv[1], "rb")) == NULL){
              printf("File couldn't be opened.\n");
             return -1;
       }
       if(argc != 2){
             printf("FUCK YOU\n you've made a wrong command.\n");
              return -1;
       }
        while (fscanf (fp, "%[^,], %[^,], %[^,], %[^,], %s", quiz[i].question, quiz[i].item1, % and $(i, j) = (i, j)
                   quiz[i].item2, quiz[i].item3, quiz[i].item4, quiz[i].item5) != EOF){
             i++;
       }
       i--;
       num = i;
       for(i=0; i<num; i++){
               fprintf(stdout, "%d: %s\n %s %s %s %s %s \n", i, quiz[i].question, quiz[i].item1, \\
                             quiz[i].item2, quiz[i].item3, quiz[i].item4, quiz[i].item5);
       fclose(fp);
       return 0;
```

b.

```
#include <stdio.h>
#include <time.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include "header.h"
```

```
int main(int argc, char *argv[]){
 QuizData quiz[NUMQUIZ];
 int i=0, num;
 FILE *fp;
 int k, j, Ans=0;
 char tmp[256];
 if((fp = fopen(argv[1], "rb")) == NULL){
   printf("File couldn't be opened.\n");
   return -1;
 }
 if(argc != 2){
   printf("you've made a wrong command.\n");
   return -1;
 \label{eq:while} while (fscanf(fp, "%[^,],%[^,],%[^,],%[^,],%s", quiz[i].question, quiz[i].item)
     [0], quiz[i].item[1], quiz[i].item[2], quiz[i].item[3], quiz[i].item[4]) != EOF){
   i++;
 i--;
 num = i; // num: the number of the questions
 for(i=0; i<num; i++){
    for(k=0;k<itemsize;k++)</pre>
        srand(time(NULL));
        j = rand()%itemsize; // k and j are gonna be replaced to each other
        sleep(1);
       if(k==0){
         strcpy(tmp, quiz[i].item[k]);
         strcpy(quiz[i].item[k], quiz[i].item[j]);
          strcpy(quiz[i].item[j], tmp);
          Ans = j+1;
          sleep(1);
        }
        else{
          strcpy(tmp, quiz[i].item[k]);
          strcpy(quiz[i].item[k], quiz[i].item[j]);
          strcpy(quiz[i].item[j], tmp);
          sleep(1);
          if(Ans == k+1){
           Ans = j+1;
          else if(Ans == j+1){
           Ans = k+1;
          }
       }
      }
```

```
fprintf(stdout, "Q%d: %s\n 1:%s 2:%s 3:%s 4:%s 5:%s\n", i+1, quiz[i].question, quiz
        [i].item[0], quiz[i].item[1], quiz[i].item[2], quiz[i].item[3], quiz[i].item[4])
    ;
    fprintf(stdout, "A%d: %d\n\n", i+1, Ans);
}

fclose(fp);
return 0;
}
```

c.

```
#include <stdio.h>
#include <time.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include "header.h"
void shuffle(int ary[],int size)
   for(int i=0;i<size;i++)</pre>
       int j = rand()%size;
       int t = ary[i];
       ary[i] = ary[j];
       ary[j] = t;
   }
}
int main(int argc, char *argv[]){
 QuizData quiz[NUMQUIZ];
 int i=0, num;
 FILE *fp;
 int k, j, Ans=0, count = 0, input;
 char tmp[256];
 int quiznumber[NUMQUIZ]; // for the shuffle of quizes
 if((fp = fopen(argv[1], "rb")) == NULL){
   printf("File couldn't be opened.\n");
   return -1;
 if(argc != 2){
   printf("you've made a wrong command.\n");
   return -1;
 [0], quiz[i].item[1], quiz[i].item[2], quiz[i].item[3], quiz[i].item[4]) != EOF){
   i++;
 }
```

```
i--;
{\tt num} = i; // {\tt num}\colon the number of the questions
srand(time(NULL));
for(i=0; i<num; i++){
  quiznumber[i] = i;
shuffle(quiznumber, num);
for(i=0; i<num; i++){
  for(k=0;k<itemsize;k++)</pre>
      j = rand()%itemsize; // k and j are gonna be replaced to each other
      sleep(1);
      if(k==0){
        strcpy(tmp, quiz[i].item[k]);
        strcpy(quiz[i].item[k], quiz[i].item[j]);
        strcpy(quiz[i].item[j], tmp);
        Ans = j+1;
        sleep(1);
      else{
        strcpy(tmp, quiz[i].item[k]);
        strcpy(quiz[i].item[k], quiz[i].item[j]);
        strcpy(quiz[i].item[j], tmp);
        sleep(1);
        if(Ans == k+1){
          Ans = j+1;
        else if(Ans == j+1){
          Ans = k+1;
      }
    }
}
for(i=0; i<num; i++){
   fprintf(stdout, "Q%d: %s\n "1:%s 2:%s 3:%s 4:%s 5:%s\n", i+1, quiz[quiznumber[i]]. 
      question, quiz[quiznumber[i]].item[0], quiz[quiznumber[i]].item[1], quiz[
      quiznumber[i]].item[2], quiz[quiznumber[i]].item[3], quiz[quiznumber[i]].item
      [4]);
  printf("%d\n A:", Ans);
  scanf("%d", &input);
  if(input != Ans){
    count++;
    printf("wrong!\n");
```

```
else{
    printf("CORRECT!\n");
}

if(count >= 2){
    printf("Too many wrong answers, game over...\n");
    return 0;
}

printf("Cleared! (wrong answers: %d)\n", count);

fclose(fp);
return 0;
}
```

header.

```
#pragma once
#include <stdio.h>
#include <time.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#define NUMQUIZ 1024
#define itemsize 5
typedef struct {
 char question[256];
 char item1[256];
 char item2[256];
 char item3[256];
 char item4[256];
 char item5[256];
} QuizData0;
typedef struct {
 char question[256];
  char item[itemsize][256];
} QuizData;
```

2.2 result

```
s1811433@LC2RR-P049:~/prog2/06/06kadai$ cc -o csv_dump csv_dump.c
s1811433@LC2RR-P049:~/prog2/06/06kadai$ ./csv_dump quiz_data_3.csv
0: Many ubnormal (?) ocurred in this summer (この夏は異常現象が頻発した。).
phenomena phenomenon ocalts phenix phenixes
1:
His company is manufacturing musical (?) [彼の会社は楽器を製造している。].
instruments instructions instructors installations installments
2:
For (?) do like this [たとえば、こうしてごらん。].
```

```
example examination exocist exchange exotic
s1811433@LC2RR-P049:~/prog2/06/06kadai$ ./csv_dump quiz_data_10.csv
0: Many ubnormal (?) ocurred in this summer [この夏は異常現象が頻発した。].
phenomena phenomenon ocalts phenix phenixes
1:
His company is manufacturing musical (?) [彼の会社は楽器を製造している。].
instruments instructions instructors installations installments
For (?) do like this [たとえば、こうしてごらん。].
example examination exocist exchange exotic
The man lived in (?) these days [男はその頃ぜいたくな暮らしをしていた。].
luxury luck lack lux lacquer
The public was in (?) of his policy [大衆は彼の政策を支持した。].
favor flavor fame fever favorite
The experiment failed of (?) [その実験は必然的に失敗した。].
necessity university velocity sensitivity sexuality
To tell the (?) Susan is a man [本当のことを言うと、スーザンは男だ。].
truth lie trust reality hont
The human was just an ape in (?) [ヒトも元々はサルにすぎなかった。].
origin virgin orient orientation oracle
They will be saved by (?) of love [彼らは愛によって救われるでしょう。].
means meeting meaning meat method
The officer is on (?) now [その警官は今勤務中です。].
duty dirty destiny debt dusty
s1811433@LC2RR-P049:~/prog2/06/06kadai$ cc -o five_opt_quiz five_opt_quiz.c
s1811433@LC2RR-P049:~/prog2/06/06kadai$ ./five_opt_quiz quiz_data_3.csv
Q1: Many ubnormal (?) ocurred in this summer [この夏は異常現象が頻発した。].
1:ocalts 2:phenomenon 3:phenomena 4:phenix 5:phenixes
A1: 3
02:
His company is manufacturing musical (?) [彼の会社は楽器を製造している。].
1: instruments 2: installments 3: installations 4: instructions 5: instructors
A2: 1
For (?) do like this [たとえば、こうしてごらん。].
1:exocist 2:examination 3:example 4:exchange 5:exotic
s1811433@LC2RR-P049:~/prog2/06/06kadai$ ./five_opt_quiz quiz_data_10.csv
Q1: Many ubnormal (?) ocurred in this summer [この夏は異常現象が頻発した。].
1:phenix 2:ocalts 3:phenixes 4:phenomenon 5:phenomena
A1: 5
His company is manufacturing musical (?) [彼の会社は楽器を製造している。].
1:instructors 2:installations 3:instruments 4:instructions 5:installments
A2: 3
```

```
03:
For (?) do like this [たとえば、こうしてごらん。].
1: example 2: examination 3: exocist 4: exotic 5: exchange
A3: 1
The man lived in (?) these days [男はその頃ぜいたくな暮らしをしていた。].
1:lack 2:luxury 3:lux 4:lacquer 5:luck
A4: 2
Q5:
The public was in (?) of his policy [大衆は彼の政策を支持した。].
1:flavor 2:fame 3:fever 4:favorite 5:favor
A5: 5
Q6:
The experiment failed of (?) [その実験は必然的に失敗した。].
1:necessity 2:velocity 3:sensitivity 4:university 5:sexuality
A6: 1
07:
To tell the (?) Susan is a man [本当のことを言うと、スーザンは男だ。].
1:reality 2:hont 3:truth 4:trust 5:lie
A7: 3
Q8:
The human was just an ape in (?) [ヒトも元々はサルにすぎなかった。].
1: virgin 2: orientation 3: orient 4: origin 5: oracle
A8: 4
They will be saved by (?) of love [彼らは愛によって救われるでしょう。].
1: meeting 2: method 3: meat 4: means 5: meaning
A9: 4
Q10:
The officer is on (?) now [その警官は今勤務中です。].
1:debt 2:destiny 3:duty 4:dirty 5:dusty
s1811433@LC2RR-P049:~/prog2/06/06kadai$ cc -o five_opt_quiz2 five_opt_quiz2.c
s1811433@LC2RR-P049:~/prog2/06/06kadai$ ./five_opt_quiz2 quiz_data_3.csv
For (?) do like this [たとえば、こうしてごらん。].
1: examination 2: exotic 3: example 4: exchange 5: exocist
A:3
CORRECT!
His company is manufacturing musical (?) [彼の会社は楽器を製造している。].
1: instructions 2: instruments 3: installments 4: instructors 5: installations
Q3: Many ubnormal (?) ocurred in this summer [この夏は異常現象が頻発した。].
1:phenomena 2:ocalts 3:phenomenon 4:phenixes 5:phenix
A:3
CORRECT!
Cleared! (wrong answers: 1)
\verb|s1811433@LC2RR-P049:|^{\prime}prog2/06/06| kadai $|| ./five\_opt\_quiz2| quiz\_data\_3.csv| | ./five\_opt\_quiz2| | ./five\_opt\_quiz2|
```

```
Q1: Many ubnormal (?) ocurred in this summer [この夏は異常現象が頻発した。].
1:ocalts 2:phenixes 3:phenomena 4:phenomenon 5:phenix
A:1
wrong!
Q2:
For (?) do like this [たとえば、こうしてごらん。].
1:exotic 2:examination 3:exchange 4:example 5:exocist
A:1
wrong!
Too many wrong answers, game over...
s1811433@LC2RR-P049:~/prog2/06/06kadai$
```

2.3 分割コンパイル後のソースファイル

Listing 1 Makefile2

Listing 2 csv_dump の関数化したやつ

```
#include <stdio.h>
#include <time.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include "header.h"
int csv_dumpex(char *argv[1], FILE *fp){
 QuizDataO quiz[NUMQUIZ];
 int i=0, num;
 quiz[i].item2, quiz[i].item3, quiz[i].item4, quiz[i].item5) != EOF){
  i++;
 }
 i--;
 num = i;
 for(i=0; i<num; i++){
  quiz[i].item2, quiz[i].item3, quiz[i].item4, quiz[i].item5);
 return 0;
}
```

Listing 3 five_opt_quiz の関数化したやつ

```
#include <stdio.h>
```

```
#include <time.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include "header.h"
int five_opt_quizex(char *argv[1], FILE *fp){
 QuizData quiz[NUMQUIZ];
 int i=0, num;
 int k, j, Ans=0;
 char tmp[256];
  [0], quiz[i].item[1], quiz[i].item[2], quiz[i].item[3], quiz[i].item[4]) != EOF){
    i++;
  \operatorname{num} = i; // \operatorname{num}: \operatorname{the number} \operatorname{of the questions}
  for(i=0; i<num; i++){
    for(k=0;k<itemsize;k++)</pre>
      {
        srand(time(NULL));
        j = rand()\%itemsize; // k and j are gonna be replaced to each other
        sleep(1);
        if(k==0){
         strcpy(tmp, quiz[i].item[k]);
         strcpy(quiz[i].item[k], quiz[i].item[j]);
         strcpy(quiz[i].item[j], tmp);
         Ans = j+1;
         sleep(1);
        }
        else{
          strcpy(tmp, quiz[i].item[k]);
          strcpy(quiz[i].item[k], quiz[i].item[j]);
          strcpy(quiz[i].item[j], tmp);
          sleep(1);
          if(Ans == k+1){
            Ans = j+1;
          else if(Ans == j+1){
           Ans = k+1;
         }
       }
      }
    fprintf(stdout, "Q%d: %s\n 1:%s 2:%s 3:%s 4:%s 5:%s\n", i+1, quiz[i].question, quiz[i].
       [i].item[0], quiz[i].item[1], quiz[i].item[2], quiz[i].item[3], quiz[i].item[4])
      fprintf(stdout, "A%d: %d\n\n", i+1, Ans);
```

```
fclose(fp);
return 0;
}
```

Listing 4 five_opt_quiz2 の関数化したやつ

```
#include <stdio.h>
#include <time.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include "header.h"
void shuffle(int ary[],int size)
{
    for(int i=0;i<size;i++)</pre>
         int j = rand()%size;
         int t = ary[i];
        ary[i] = ary[j];
        ary[j] = t;
    }
}
int five_opt_quiz2ex(char *argv[1], FILE *fp){
  QuizData quiz[NUMQUIZ];
  int i=0, num;
  int k, j, Ans=0, count = 0, input;
  char tmp[256];
  int quiznumber[NUMQUIZ]; // for the shuffle of quizes
   while (fscanf (fp, "%[^,], %[^,], %[^,], %[^,], %s", quiz[i].question, quiz[i].item ) \\
     [0], quiz[i].item[1], quiz[i].item[2], quiz[i].item[3], quiz[i].item[4]) != EOF){
    i++;
  }
  i--;
  \operatorname{num} = i; // \operatorname{num}: \operatorname{the number} \operatorname{of the questions}
  srand(time(NULL));
  for(i=0; i<num; i++){
    quiznumber[i] = i;
  shuffle(quiznumber, num);
  for(i=0; i<num; i++){
    for(k=0;k<itemsize;k++)</pre>
      {
         j = rand()%itemsize; // k and j are gonna be replaced to each other
```

```
sleep(1);
      if(k==0){
       strcpy(tmp, quiz[i].item[k]);
       strcpy(quiz[i].item[k], quiz[i].item[j]);
       strcpy(quiz[i].item[j], tmp);
       Ans = j+1;
        sleep(1);
      }
      else{
        strcpy(tmp, quiz[i].item[k]);
        strcpy(quiz[i].item[k], quiz[i].item[j]);
        strcpy(quiz[i].item[j], tmp);
        sleep(1);
        if(Ans == k+1){
          Ans = j+1;
        else if(Ans == j+1){
         Ans = k+1;
     }
   }
}
for(i=0; i<num; i++){
  fprintf(stdout, "Q%d: %s\n 1:%s 2:%s 3:%s 4:%s 5:%s\n", i+1, quiz[quiznumber[i]].
      question, quiz[quiznumber[i]].item[0], quiz[quiznumber[i]].item[1], quiz[
      quiznumber[i]].item[2], quiz[quiznumber[i]].item[3], quiz[quiznumber[i]].item
      [4]);
 //printf("%d\n A:", Ans);
  scanf("%d", &input);
 if(input != Ans){
    count++;
   printf("wrong!\n");
 else{
   printf("CORRECT!\n");
 if(count >= 2){
   printf("Too many wrong answers, game over...\n");
   return 0;
printf("Cleared! (wrong answers: %d)\n", count);
fclose(fp);
return 0;
```

Listing 5 header.h

```
#pragma once
#include <stdio.h>
#include <time.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#define NUMQUIZ 1024
#define itemsize 5
typedef struct {
  char question[256];
  char item1[256];
  char item2[256];
  char item3[256];
 char item4[256];
  char item5[256];
} QuizData0;
typedef struct {
 char question [256];
  char item[itemsize][256];
} QuizData;
```

2.4 result

```
./main quiz_data_3.csv
which function do you want to use?
1:csv_dump 2:five_opt_quiz 3:five_opt_quiz2
0: Many ubnormal (?) ocurred in this summer [この夏は異常現象が頻発した。].
phenomena phenomenon ocalts phenix phenixes
1:
His company is manufacturing musical (?) [彼の会社は楽器を製造している。].
instruments instructions instructors installations installments
For (?) do like this [たとえば、こうしてごらん。].
example examination exocist exchange exotic
s1811433@LC2RR-P049:~/prog2/06/06kadai/devidecompile$ make -f Makefile2 run
./main quiz_data_3.csv
which function do you want to use?
1:csv_dump 2:five_opt_quiz 3:five_opt_quiz2
Q1: Many ubnormal (?) ocurred in this summer [この夏は異常現象が頻発した。].
1:ocalts 2:phenixes 3:phenomenon 4:phenomena 5:phenix
A1: 4
His company is manufacturing musical (?) [彼の会社は楽器を製造している。].
1: instructions 2: instructors 3: instruments 4: installations 5: installments
A2: 3
Q3:
```

```
For (?) do like this [たとえば、こうしてごらん。].
1: exchange 2: examination 3: exotic 4: exocist 5: example
A3: 5
{\tt s1811433@LC2RR-P049:~/prog2/06/06kadai/devidecompile\$~make~-f~Makefile2~run}
./main quiz_data_3.csv
which function do you want to use?
1:csv_dump 2:five_opt_quiz 3:five_opt_quiz2
3
His company is manufacturing musical (?) [彼の会社は楽器を製造している。].
1:instruments 2:installments 3:instructions 4:installations 5:instructors
4
A:2
wrong!
Q2:
For (?) do like this [たとえば、こうしてごらん。].
1: exocist 2: exchange 3: examination 4: example 5: exotic
CORRECT!
Q3: Many ubnormal (?) ocurred in this summer [この夏は異常現象が頻発した。].
1:phenixes 2:phenix 3:ocalts 4:phenomenon 5:phenomena
A:3
wrong!
Too many wrong answers, game over...
s1811433@LC2RR-P049:~/prog2/06/06kadai/devidecompile$
```