```
4. (1) <u>strncmp(s, b, n)</u> (2) <u>strlen(s)</u> (3) <u>\\0'</u>
 計算機程式二111學年度第2學期小考3試題
                                                                     (4) i + nextEnd (5) r (6) come
 請完成以下程式碼,使執行結果符合輸出。(Please
1. 下列程式輸出結果(The output for void f1()):
                                                                      complete the empty space to make the execution result match
                                                                      the output.)
  (1) Line 1: <u>12</u> (2) Line 2: <u>Tennis</u> (3) Line 3: <u>Basketball</u>
                                                                      int findNextEnd(char *s){
  enum Sport {Soccer=1, Basketball, Tennis, Baseball=10, Golf,
                                                                        int n = 0:
  Running, Volleyball};
  void f1(){
                                                                        while ((s[n] != ' ') || (s[n] == ' \setminus 0')) \{ n++; \}
        enum Sport favSport, mySport;
                                                                        return n;
        const char *pSportName[] = {"", "Soccer", "Basketball",
        "Tennis", "Baseball", "Golf", "Running", "Volleyball"};
                                                                      int isBeInsertedWord(char *s, char *b){
        favSport = 3;
                                                                        int n = strlen(b);
        if (favSport == Tennis) mySport = Basketball;
                                                                        if ((
                                                                                   ____ == 0) &&
                                                                                                            //(1)
        else mySport = (enum Sport)(favSport - 1);
                                                                          ((s[n] == ' ') || (s[n] == ' \setminus 0')))
        printf("%d\n", Running);
                                                 //(1)
                                                                          return 1;
        printf("%s\n", pSportName[favSport]);
                                                 // (2)
                                                                        else return 0;
        printf("%s", pSportName[mySport]);
                                                 // (3)
                                                                      char **insertWord(char *s, char *beInsertedWord,
  }
2. (1) Line 1: _____ static char ___ (2) Line 2: _____ p++
                                                                                char *insertingWord, int *count){
  (3) Line 3: s1 _ (4) Line 4:
                                              NULL
                                                                        int i = 0, index = 0, nextEnd = 0;
  請完成以下程式碼,使執行結果符合輸出。(Please complete
                                                                        int lenB = strlen(beInsertedWord);
  the empty space to make the execution result match the output.)
                                                                        char **r = NULL:
  The output of void f2(): 1A 2B 3C 4D 5E 6F
                                                                        r = (char **)malloc(100 * sizeof(void *));
  char *myStrtok(char *s1, char *s2){
                                                                        int len = ;
                                                                                                             // (2)
    _____ *p;
                                                                        while (i < len)
    if (s1 == NULL) s1 = p;
                                                                          if (isBeInsertedWord(&s[i], beInsertedWord) == 1){
    else p = s1;
                                                                             r[index++] = insertingWord;
    if (*p == \0) return NULL;
                                                                            r[index++] = beInsertedWord;
    while ((*p) != (*s2)) \{ p++; \}
                                                                            s[i + lenB] = \underline{\hspace{1cm}};
                                                                                                             // (3)
     *( ____) = '\0';
                                 //(2)
                                                                            i = i + lenB + 1;
    return ___;}
                                 //(3)
                                                                          }
  void f2(){
                                                                          else{
    char str[] = "1A,2B,3C,4D,5E,6F,";
                                                                            r[index++] = &s[i];
    char *delim = ",";
                                                                            nextEnd = findNextEnd(&s[i]);
    char *token;
                                                                                                             // (4)
    token = myStrtok(str, delim);
                                                                             s[i++] = '\0'; 
    while (token != NULL){
       printf("%s", token);
                                                                        (*count) = index;
       token = myStrtok(____, delim);}} // (4)
                                                                        return ___;
                                                                                                             // (5)
3. 下列程式輸出結果(The output for void f3()):
(1) Line 1: <u>R</u> (2) Line 2: <u>THE</u>
                                                                      void f4(){
(3) Line 3: _____ (4) Line 4: ____ ASIC
                                                                        char str[] = "Fuzzer come in and out Fuzzer come";
  void f3(){
                                                                        char b[] = "____"; //(6)
    char **p;
                                                                        char i[] = "bear";
    char *pa[4] = {"CRUD", "IS", "THE", "BASIC"};
                                                                        char **p = NULL;
    p = &pa[0];
                                                                        int n = 0, j = 0;
    printf("%c\n", *(*p + 1));
                                         //(1)
                                                                        p = insertWord(str, b, i, &n);
    printf("%s\n", *(p + 2));
                                          //(2)
                                                                        for (j = 0; j < n; j++) \{ printf("%s ", p[j]); \}
    printf("%c\n", *(*(p + 3) + 3));
                                         //(3)
                                                                      }
```

printf(" $% s \ ", *(p+3) + 1);$ }

//(4)

```
5. (1) <u>sumOfSquares</u> (2) <u>double</u> (3) *f
                                                                  7. 下列程式輸出結果(The output for void f7()):
   請完成以下程式碼,使執行結果符合輸出。(Please complete
                                                                  (1) Line 1: <u>16</u> (2) Line 2: <u>6</u> (3) Line 3: <u>12</u>
   the empty space to make the execution result match the output.)
                                                                  (4) Line 4: 8 ____ (5) Line 5: ____ 204
   The output of void f5():
                                                                  struct on_off{
   0.0
                                                                    unsigned light: 1;
   16.0
                                                                    unsigned toaster: 1;
   double differenceOfSquares(double a, double b){
                                                                    int count;
     return (a+b) * (a-b);
                                                                    unsigned clock: 1;
   }
                                                                    unsigned: 0;
   double (1) (double a, double b){
                                                                    unsigned flag: 1;
     return a * a + 2 * a * b + b * b;
                                                                  } kitchen;
                                                                  struct flag{
   double calculate(_(2)_ f(double, double), double x, double y)
                                                                    unsigned short F1: 10;
                                                                    unsigned short F2: 8;
     double value=0;
                                                                    unsigned short F3: 6;
     double fy1 = (*f)(x, y);
                                                                    unsigned short F4: 12;
     double fy2 = (_(3)_)(y, x);
                                                                  } room;
     value = (fy1 + fy2) / 2;
                                                                  struct pig_s{
     return value;
                                                                    unsigned head: 1;
   }
                                                                    int foot;
   void f5(){
                                                                    unsigned body: 1;
     double x, y, (*f)(double, double);
                                                                  } pig;
     x = 5.2;
                                                                  struct cow_s{
     y = 3.4;
                                                                    unsigned head: 1;
     f = differenceOfSquares;
                                                                    unsigned body: 1;
     printf("%.1f\n", calculate(f, x, y));
                                                                    unsigned short :0;
     x = 1.2;
                                                                    unsigned short foot :4;
     y = 2.8;
                                                                  } cow;
     f = sumOfSquares;
                                                                  void f7 (){
     printf("%.1f\n", calculate(f, x, y));
                                                                    struct flag r;
   }
                                                                    scanf ("%x", &r);
                                                                                          //輸入 cccccc
6. 下列程式輸出結果(The output for void f6()):
                                                                    printf("%d\n", sizeof(kitchen));
(1) 4 (2) 3 (3) 8
                                                                    printf("%d\n", sizeof(room));
(4) _____ 3 ___ (5) ____ 4 ___ (6) _ 3 4 2 7 10
                                                                    printf("%d\n", sizeof(pig));
void f6() {
                                                                    printf("%d\n", sizeof(cow));
  int a[]=\{2, 4, 6, 8, 10\};
                                                                    printf("%d\n", r.F2);
  int *p = a;
  *(p++) = 1;
                                                                  8. int*x[3][4]; 假設 x[1][3]的記憶體位址是 2048 時,則 x[2][2]的
  printf("%d\n", *p);
                                                                    記憶體位址為多少? (int*x[3][4]; Assuming the memory address
  *(++p) = 3;
                                                                    of x[1][3] is 2048, what is the memory address of x[3][2]?)
  printf("%d\n", *p);
                                                                  Ans:
  a[0] = (*(p++));
  printf("%d\n", *p);
                                                                  9. 請針對計算機程式設計課程,提出目前學習上較有問題的部
  --(*(p--));
                                                                      分,並說明如何解決問題。(30 字含以上才計分) For the
  printf("%d\n", *p);
                                                                      computer programming course, please point the more confusing
  (*(p--))--;
                                                                      section in the current study. Write down the problem and how to
                                                                      improve it. (30 words or more will be scored)
  printf("%d\n", *p);
```

for (int i = 0; i < 5; i++) {printf ("%d ", a[i]);}

}