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1.
   (A) C語言並非物件導向語言
   (B) 應訂正為 == 運算子
   (C) C 語言中,字串並無 + 運算子
   (D) 正解
2.
   (1) 第四行應訂正為 int x = 3;
   (2) 4
      6
      6
3.
   #include <stdio.h>
   int main()
   {
       int a, b;
       while(scanf("%d%d", &a, &b) != EOF)
            printf("%d\n", a + b);
       return 0;
   }
4.
   #include <stdio.h>
   #include <limits.h>
   int main()
   {
       unsigned int a, b;
       while(scanf("%u%u", &a, &b) != EOF)
       {
            if (UINT_MAX - a < b)
                printf("Yes\n");
            else
                printf("No\n");
       }
```

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5.
     #include <stdio.h>
     int gcd(int a, int b)
     {
          if (a && b)
               return gcd(b, a % b);
          else
               return (a + b);
     }
     int main()
     {
          int a_child, a_parent, b_child, b_parent;
          while(scanf("%d/%d + %d/%d", &a_child, &a_parent, &b_child, &b_parent) != EOF)
               int c_child = a_child * b_parent + b_child * a_parent;
               int c_parent = a_parent * b_parent;
               int c_gcd = gcd(c_child, c_parent);
               printf("%d/%d + %d/%d = %d/%d\n",
                        a_child, a_parent, b_child, b_parent, c_child / c_gcd, c_parent / c_gcd);
          }
          return 0;
   }
6.
     #include <stdio.h>
     #include <ctype.h>
     int main()
     {
          int ch;
          while((ch = getchar()) != EOF)
          {
               if (isalpha(ch) | | ch == '\n')
                    putchar(ch);
               else if (ch == ':' || ch == '-')
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}

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putchar(' ');
          }
          return 0;
   }
7.
     #include <stdio.h>
     #include <stdlib.h>
     int cmp(const void *a, const void *b)
     {
          return (*(unsigned int*)b - *(unsigned int*)a);
     }
     int main()
     {
          unsigned int cnt;
          while(scanf("%u", &cnt) != EOF)
          {
               unsigned int a, b, c, d;
               unsigned int *array = (unsigned int*)malloc(cnt * sizeof(unsigned int));
               for (int i = 0; i < cnt; ++i)
               {
                    scanf("%u%u%u%u", &a, &b, &c, &d);
                    array[i] = (a << 24) + (b << 16) + (c << 8) + d;
               }
               qsort(array, cnt, sizeof(unsigned int), cmp);
               for (int i = 0; i < cnt; ++i)
                     printf("%u\n", array[i]);
          }
          return 0;
   }
8.
     #include <stdio.h>
     #include <string.h>
```

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int main()
     {
          char a[50 + 1];
          int b;
          while(scanf("%s%d", a, &b) != EOF)
          {
               int reminder = 0;
               for (int i = 0; i < strlen(a); ++i)
                    reminder = ((a[i] - '0') + reminder * 10) % b;
               if (reminder == 0)
                    printf("Yes\n");
               else
                    printf("No\n");
          }
          return 0;
   }
9.
     #include <stdio.h>
     #include <math.h>
     #include <float.h>
     #define EPS
                                  1e-10
                             (p * exp(-x) + q * sin(x) + r * cos(x) + s * tan(x) + t * pow(x, 2.0) + u)
     #define Calculate(x)
     int main()
     {
          int p, q, r, s, t, u;
          while(scanf("%d%d%d%d%d%d%d", &p, &q, &r, &s, &t, &u) != EOF)
          {
               double value_0 = Calculate(0.0), value_1 = Calculate(1.0);
               if (value_0 < -EPS || value_1 > EPS)
                    printf("No solution\n");
               }
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else
               {
                    double begin = 0.0, end = 1.0;
                    while(end - begin > EPS)
                    {
                          double middle = (begin + end) / 2.0;
                          if (Calculate(middle) > 0)
                               begin = middle;
                          else
                               end = middle;
                    }
                    printf("%.4f\n", begin);
               }
          }
          return 0;
   }
10.
     #include <stdio.h>
     #include <string.h>
     int main()
     {
          FILE *fp;
          char key[1024 + 1];
          printf("Input Encode Key (English only):\n");
          gets(key);
          if (fp = fopen("input.txt", "r"))
          {
               int ch;
               while((ch = fgetc(fp)) != EOF)
               {
                    for (int i = 0; i < strlen(key); ++i)
                         ch ^= key[i];
                    putchar(ch);
               }
```

```
fclose(fp);
}
else
{
    printf("Can't open file!\n");
}
return 0;
}
```