5.1
1).

```
1  -    #define TRUE 1;
2  +    #define TRUE 1
3
4       if (TRUE)
5           printf("True");
6       else
7           printf("False");
```

2).

```
1  -    if (x == 0)
2  +    if (x == 0) {
3           a++;
4           b--;
5  -    else
6  +    }
7  +    else {
8           a--;
9           b++;
10 +    }
```

5.2
1).

```
1       #include <stdio.h>
2
3       int main() {
4           int i = 0;
5           int sum = 0;
6
7  -        for (; i >= 10; ++i)
8  +        for (; i <= 10; ++i)
9               sum = sum + i;
10          printf("%d\n", sum);
11      }
```

2).

```
1       #include <stdio.h>
2
3       int main() {
4           int i = 0;
5           int sum = 0;
6
7  -        while (i < 10)
8  +        while (i <= 10)
9               sum = sum + i++;
10          printf("%d\n", sum);
11      }
```

3).

```
1       #include <stdio.h>
2
3       int main() {
4           int i;
5           int sum = 0;
```

```
6
7        for (i = 0; i <= 10;)
8   -            sum = sum + ++i ;
9   +            sum = sum + i++;
10       printf("%d\n", sum);
11   }
```

4).

```
1    #include <stdio.h>
2
3    int main() {
4        int i;
5        int sum = 0;
6
7        for (;;)
8            if (i < 10) {
9                sum = sum + ++i;
10  -             printf("%d\n", sum);
11           }
12           else
13           break;
14  +    printf("%d\n", sum);
15   }
```

5.3

```
1    #include <stdio.h>
2
3    int main() {
4        int valueA, valueB;
5        int num, divisor;
6        int prime;
7
8        printf("Enter the valueA:");
9        scanf("%d", &valueA);
10
11       printf("Enter the valueB:");
12       scanf("%d", &valueB);
13
14       for (num = valueA; num <= valueB; num++) {
15           prime = 1;
16
17  -         for (divisor = 2; divisor <= num; divisor++)
18  +         for (divisor = 2; divisor < num; divisor++)
19               if ((num % divisor) == 0) {
20                   prime = 0;
21               }
22           if (prime)
23               printf("The number %d is prime\n", num);
24       }
25   }
```

5.4

```
1    #include <stdio.h>
2
3    int main() {
```

```
 4  +         int year;
 5            int month;
 6            int day;
 7            int sum;
 8
 9  -         printf("Input the date(month day):");
10  -         scanf("%d%d", &month, &day);
11  +         printf("Input the date(year month day):");
12  +         scanf("%d%d%d", &year, &month, &day);
13
14            switch (month) {
15                case 1: sum = day; break;
16                case 2: sum = day + 31; break;
17                case 3: sum = day + 59; break;
18                case 4: sum = day + 90; break;
19                case 5: sum = day + 120; break;
20                case 6: sum = day + 151; break;
21                case 7: sum = day + 181; break;
22                case 8: sum = day + 212; break;
23                case 9: sum = day + 243; break;
24                case 10: sum = day + 273; break;
25                case 11: sum = day + 304; break;
26                case 12: sum = day + 334; break;
27            }
28  +         sum += !(year % (year % 100 ? 4 : 400)) && month > 2;
29
30  -         printf("%d.%d is the %dth days.\n", month, day, sum);
31  +         printf("%d.%d.%d is the %dth days.\n", year, month, day, sum);
32        }
```