

练习

赋值

```
1 | int a=1;
```

```
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```

数组和指针

```
1 | char* s[10];
```

```
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```

循环

```
1 | int main()
2 | {
3 |     int i, a[10];
4 |     for(i = 0; i < 10; ++i)
5 |         a[i] = i * i;
6 |     return 0;
7 | }
```

```
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```

格式化输出

```
1 | #include <stdio.h>
2 | int main()
3 | {
4 |     int x = 0, y = 2;
5 |     printf("%d, %d\n", x, y);
6 |     return 0;
7 | }
```

```
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```

输入和判断

```
1 #include <stdio.h>
2 int main()
3 {
4     int a;
5     scanf("%d", &a);
6     if(a > 10)
7         printf("too big");
8     else if(a < 0)
9         printf("too small");
10    else
11        printf("fine");
12    return 0;
13 }
```

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选择

```
1 #include <stdio.h>
2 int main()
3 {
4     int a;
5     scanf("%d", &a);
6     switch(a)
7     {
8         case 1:
9             printf("hi\n");
10            break;
11        case 2:
12            printf("bye\n");
13            break;
14        default:
15            printf("go\n");
16    }
17    return 0;
18 }
```

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库和数字格式

```
1 #include <math.h>
2 #include <stdio.h>
3 double mcos(double x) {return cos(x);}
4 int main()
5 {
6     int a;
7     scanf("%d", &a);
8     printf("%08.2f\n", mcos((double)a));
9     return 0;
10 }
```

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简单函数

```
1 int max(int a, int b)
2     return a < b ? b : a;
```

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判断复合和移位

```
1 if(a > b && (10 > 1 << i)) {a += 1;}
```

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多元素输入

```
1 print("Input a, b:")
2 scanf("%d, %d", &a, &b)
```

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数字与字符串转换（字符处理）

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```
1 def main():
2     string = input("Please input a number:")
3     print(int(string))
4     print(str(int(string)))
5 if __name__ == "__main__":
6     main()
```

```
Retranslate back from c to python line by line
```

```
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```

凯撒密码

```
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```

```
1 | from string import ascii_lowercase as lc, ascii_uppercase as uc
2 | shift = dict(list(zip(lc, lc[k:] + lc[:k])) + list(zip(uc, uc[k:] +
3 |   uc[:k])))
  str_ = ''.join([shift[c] for c in str_])
```

```
Retranslate back from c to python line by line
```

```
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```

截断/切片

```
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```

```
1 | str2 = str1
2 | print(str2[start:end])
```