C++

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Contents

Instruction to C++

Variable

```
1  #include <iostream>
2  using namespace std;
3  int main() {
4      int x;
5      x = 32;
6      cout << "XThis is demostration of variable declaration of C++.\n";
7  }
```

if-else

單一條件

```
1  #include <iostream>
2  using namespace std;
3  int main() {
4    int x;
5    x=31;
6    if (x%2==0) {
7      cout << "x□ □ □ \n";
8    }
9    if (x%2!=0) {
```

```
10      cout << "x□ □ □ \n";
11    }
12  }
```

雙重條件

```
#include <stdio.h>
int main() {
    int x=4;
    if (x%2==0) {
        printf("even\n");
    } else {
     printf("odd\n");
    }
}
```

for

nested for

while

Instruction to C++

Variable

```
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2  using namespace std;
3  int main() {
4      int x;
5      x = 32;
6      cout << "This is demostration of variable declaration of C++";
7  }
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if-else

單一條件

```
 1  #include <iostream>
 2  using namespace std;
 3  int main() {
 4    int x;
 5    x=32;
 6    if (x%2==0) {
 7      cout << "x□□□\n";
 8    }
 9    if (x%2!=0) {
10      cout << "x□□□\n";
11    }
12  }
```

雙重條件

```
#include <stdio.h>
#include <iostream>
int x=4;
if (x%2==0) {
  cout << "x□□□\n";
} else {
  cout << "x□□□\n";

}
```

for

nested for

while

function

function declaration

function define

compute n!

```c
#include <stdio.h>
int n(int x) {
    if (x==1) {
        return 1;
    } else {
        return x*n(x-1);
    }
}
int main() {
    int hi = 5;
    printf("%d\n",n(5));
}
```

function

function declaration

function define

compute n!

```cpp
#include <iostream>
using namespace std;
int n(int x) {
```

```
    if (x==1) {
        return 1;
    } else {
        return x*n(x-1);
    }
}


int main() {
    int hi = 9;
    cout << n(8) << endl;
}
```

python

```
1  def foo(x):
2    if x>0:
3      return x+1
4
5    else:
6      return x-1
7
8  return foo(5)
```

Python

```
1
2
3  print "Hello"
4
```

ditaa