



程式設計練習

查詢數字

```
#include<iostream>
using namespace std;

int main() {
    int integer[5], search,q=0;
    cout << "請輸入整數:"<<endl;
    for (int i = 0;i < 5;i++) {
        cout << i + 1<<":";
        cin >> integer[i];
    }
    cout << "輸入查詢數字:";
    cin >> search;
    for (int j = 0;j < 5;j++) {
        if (search== j){
            q = integer[j-1];
            break;
        }
        else if(search==0){
            break;
        }
        else {
            continue;
        }
    }
    cout << q;
}
```

2.查詢範圍內數字的練習

```

#include<iostream>
using namespace std;
int main() {
    int integer[5];
    int ans[5];
    int L, R;
    for (int i = 0; i < 5; i++) {
        cin >> integer[i];
    }
    for (int k = 1; k > 0; k++) {
        cout << "L R:";
        cin >> L >> R;
        if (L == 0 && R == 0) {
            cout << "結束...";
            break;
        }
        cout << "ans=";
        for (int j = 0; j < 5; j++) {
            if (integer[j] >= L && integer[j] <= R) {
                ans[j] = integer[j];
                cout << ans[j] << " ";
            }
        }
        cout << endl;
    }
}

```

3. 找出距離最近的數

```

#include<iostream>
#include <cstdlib> //數學函數
using namespace std;

int main() {
    int integer[5], Q, val=0;
    for (int i = 0; i < 5; i++) {

```

```

        cin >> integer[i];
    }
    cout << "Q:";
    cin >> Q;
    val = integer[0];
    int valdiff = abs(integer[0] - Q);
    for (int j = 1; j < 5; j++) {
        if (valdiff > abs(integer[j] - Q)) {
            val = integer[j];
            valdiff = abs(integer[j] - Q);
        }
        if (valdiff == abs(integer[j] - Q) && val < integer[j]) {
            val = integer[j];
        }
    }
    cout << val;
}

```

4.查詢重複次數最多

```

#include <iostream>
using namespace std;

int main() {
    int integer[5], repeat[5];
    for (int i = 0; i < 5; i++) {
        cin >> integer[i];
    }
    for (int j = 0; j < 5; j++) {
        int sum = 0;
        for (int k = 0; k < 5; k++) {
            if (integer[j] == integer[k]) {
                sum++;
                repeat[j] = sum;
            }
        }
    }
}

int value = integer[0]; //重複數值對比

```

```

int rel = repeat[0];
for (int a = 0; a < 4; a++) {
    if (rel > repeat[a+1]){
        continue;
    }
    else if (rel < repeat[a+1]){
        value = integer[a + 1]; //重複最多的數字
        rel = repeat[a+1]; //重複次數
    }
    if (rel == repeat[a + 1] && value > integer[a + 1])
        value = integer[a + 1];
}
cout << value;
}

```

5. 輸入1-100的數字 畫出每個區間的長條圖

```

#include<iostream>
using namespace std;
int main() {
    int integer[10];
    for (int i = 0; i < 10; i++) {
        cin >> integer[i];
    }
    for (int j = 0; j < 10; j++) {
        cout << (j * 10) + 1 << "-" << (j + 1) * 10 << ":"; //先印1-10
        for (int k = 0; k < 10; k++) {
            if (integer[k] >= (j * 10) + 1 && integer[k] <= (j + 1) * 10) { //將integer[0]
                cout << "*";
            }
        }
        cout << endl;
    }
}

```