

hw1-1 參考解答

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

int points[8]={};
int count[6]={};

int main()
{
    int a, b, c;
    int mostAppeared=0;

    srand(time(NULL));
    for(int i=1;i<=100;i++)
    {
        if(i==1)
            cout << "Throwin dice ...\n1...";
        if(((i%10)==0)&&(i<100))
            cout << i << "...";
        if(i==100)
            cout << "100\n" << endl;

        a = (rand()%6)+1;
        b = (rand()%6)+1;
        c = (rand()%6)+1;

        count[a-1]++;
        count[b-1]++;
        count[c-1]++;

        if((a==b)&&(a==c))
        {
            if(a!=6)
                points[6]++;
            else
                points[7]++;
        }
        else
        {
            if(a==b)
                points[c-1]++;
        }
    }
}
```

```
    else if(a==c)
        points[b-1]++;
    else if(b==c)
        points[a-1]++;
}

}
cout << "Statistical Data\nPoints" << endl;
for(int i=0;i<6;i++)
    cout << i+1 << " : " << points[i] << endl;
cout << "10 : " << points[6] << endl;
cout << "20 : " << points[7] << endl << endl;

for(int i=1;i<6;i++)
    if(count[i] > count[mostAppeared])
        mostAppeared = i;

cout << "The most appeared dice-point is " << mostAppeared+1 << "." <<
endl;

return 0;
}
```

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