1. Dynamic 1-d array:
   In c++, for the static array, the size CANNOT be a variables.

```
int n;
cint >>n;
int a[n]; // compiler error.
```

   To declare a dynamic array, we use pointer:

```
int n;
cin>>n;
int * q = new int[n];
/*
code goes here
*/
delete[] q;
```

2. Dynamic 2-d array:

```
int row =5;
int col = 10;
int ** p = new int * [row];
for(int i =0;i<row;i++){
        p[i] = new int[col];
}
for(int i =0;i<row;i++)
        for(int j = 0;j<col;j++)
                p[i][j]=0;
/*
Code
*/
for(int i =0;i<row;i++){
        delete[] p[i];
}
Delete []p;
```

3. Dynamic 2-d array:

```
int col =5;
int * p[10];// p is an array. Size is 10, element is pointer to int.
for(int i=0;i<10;i++)
        p[i]=new int[col];

for(int i =0;i<10;i++)
        for(int j = 0;j<col;j++)
                p[i][j]=0;
/*
Code
*/
for(int i =0;i<10;i++)
        delete[] p[i];
```