HW0406

```
1    #include <stdio.h>
2
3    #define Peval(cmd) printf(#cmd ": %g\n", cmd);
4
5    int main() {
6        double *plist = (double[]){1, 2, 3};
7        double list[] = {1, 2, 3};
8        Peval(sizeof(plist) / (sizeof(double) + 0.0));
9        Peval(sizeof(list) / (sizeof(double) + 0.0));
10       return 0;
11   }
```

the #X in define will contain X in macro with string

e.g.

` f(x) #x`

` f(a) will be "a"`

so `Peval(sizeof(plist) / (sizeof(double) + 0.0))` will extain to `sizeof(plist) / (sizeof(double) + 0.0): 1`

and plist is pointer(size is 8 bytes), double is 8 bytes too

so first output is `sizeof(plist) / (sizeof(double) + 0.0): 1`

list is a array, and array size is numMember*sizeofEachElement and it is 8*3

so second output is `sizeof(list) / (sizeof(double) + 0.0): 3`