

# Announcements and Summary

Hsuan-Tien Lin

Department of CSIE, NTU

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# Announcements

- midterm (a.k.a. Java night):  
4/18 (Sun) 7pm-9pm, Rooms 102, 103, 104  
**please follow the seating chart**
- entrance guard system during Sundays:  
for non-CSIE students, please come before 6:50pm (or gently knock the 102/104 window)
- open **textbook**
- no classes 4/19–20
- HW2 may not be graded before midterm because of spring break, go ask the TAs for questions

# Beyond Arrays

```
1  class Util{
2      public static double cool_avg(double [] arr){
3          double res = 0.0;
4          for(double element: arr) res += element;
5          return res / arr.length;
6      }
7      public static double even_cooler_avg(double ... arr){
8          double res = 0.0;
9          for(double element: arr) res += element;
10         return res / arr.length;
11     }
12 }
13
14 System.out.println(Util.cool_avg(new double [] {1, 5, 3, 2}));
15 System.out.println(Util.cool_avg(new double [] {1, 2, 3}));
16 System.out.println(Util.even_cooler_avg(1, 5, 3, 2));
17 System.out.println(Util.even_cooler_avg(1, 2, 3));
18 double [] a = {1, 2, 4};
19 System.out.println(Util.cool_avg(a));
20 System.out.println(Util.even_cooler_avg(a));
```

# Using extends

```
1  class User{
2      int money;
3      void talk_to_friend(User a_user){ }
4  }
5  class SYSOP extends User{
6      //money "inherited" from the definition above
7      //talk_to_friend "inherited" from the definition above
8
9      void reset_user_money(User a_user){
10         a_user.money = 0;
11     }
12     //reset_sysop_money no need, because SYSOP is a User
13 }
```