Programming Fundamental – ENSF 337
Lab 2
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B01
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Lab2exe D2.c

ENSF Fall 2019 Lab 2 Exercise D2

Run #	Your Inputs	What is the value of n	What is the value of i	What is the value d
1	12 0.56	2	12	0.560000
2	5.12 9.56	2	5	0.120000
3	12 ab	1	12	1234.500000
4	ab 12	0	333	1234.500000
5	5ab 9.56	1	5	1234.500000
6	13 67	2	13	67.00000

```
/*
 *
 * lab2exe_F.c
 * ENSF 337 - Lab 2 - Execise F
 *
 * Completed by:    Jay Chuang
 * Lab Section:     B01
 *
 *
 */

#include<stdio.h>

void get_user_input(double* distance, double* speed);
/*
 *  REQUIRES
 *      Reads user input, distance in km, and vehicles speed in km/h
 *  PROMISES
 *      Returns nothing
 */

void travel_time_hours_and_minutes(double distance, double speed, double *hours, double *minutes);
/*
 *  REQUIRES
 *      Receives the user inputs (distance and speed), and calculates the
 *      travel time in hours and minutes.
 *  PROMISES
 *      Returns nothing
 */
```

```
void display_info( double distance, double speed, double hours, double minutes);
/*
 *  REQUIRES
 *     To display the distance that was traveled, followed by the
 *     speed of vehicle, and then the travel time in( hours and minutes)
 *  PROMISES
 *     Returns nothing
 */

int main(void)
{
   double distance, speed, hours, minutes;

   get_user_input(&distance, &speed);

   travel_time_hours_and_minutes(distance, speed, &hours, &minutes);

   display_info(distance, speed, hours, minutes);
}

void get_user_input(double *distance, double *speed)
{
   printf("Please enter the travel distance in km:");
   scanf("%lf",&*distance);

   printf("Now enter the vehicle's average speed (km/hr):");
   scanf("%lf",&*speed);
}
```

```
void travel_time_hours_and_minutes(double distance, double speed, double *hours, double *minutes)
{
   double time;
   double h = 0;

   time = distance/speed;

   while(time>=1)
   {
      time -= 1;
      h += 1;
   }

   time *= 60;

   *minutes = time;
   *hours = h;
}

void display_info( double distance, double speed, double hours, double minutes)
{
   printf("\nYou have travelled %lf km with a speed of %lf km/h in %lf hour(s) and %lf
minutes(s)",distance, speed, hours, minutes);
}
```

OUTPUT

Please enter the travel distance in km:Now enter the vehicle's average speed (km/hr):

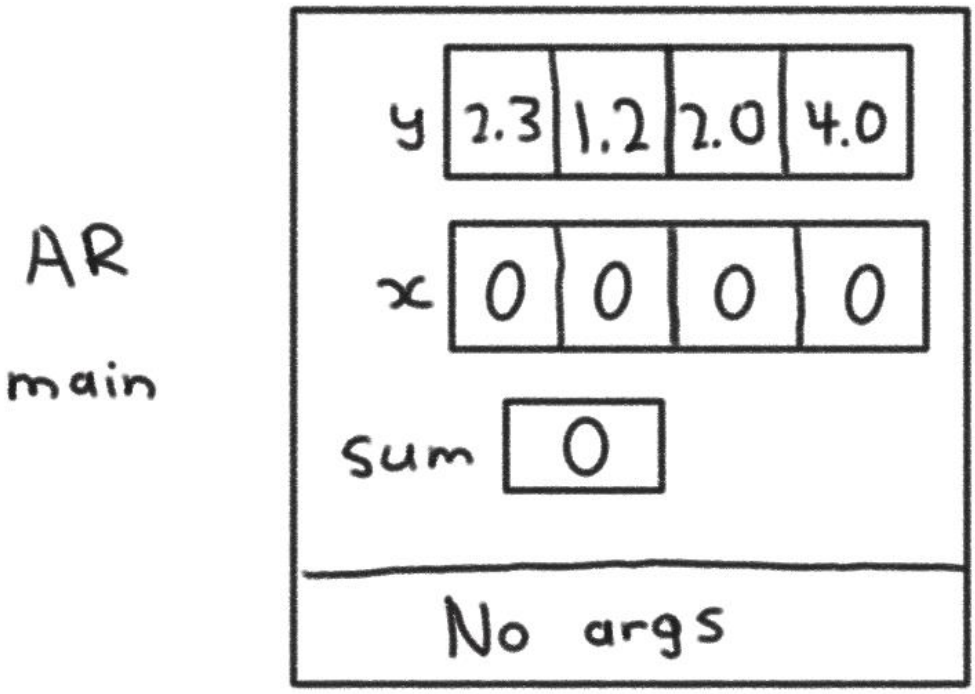
You have travelled 5.440000 km with a speed of 76.500000 km/h in 0.000000 hour(s) and 4.266667 minutes(s)

Lab2exe G.c

ENSF Fall 2019 Lab 2 Exercise G

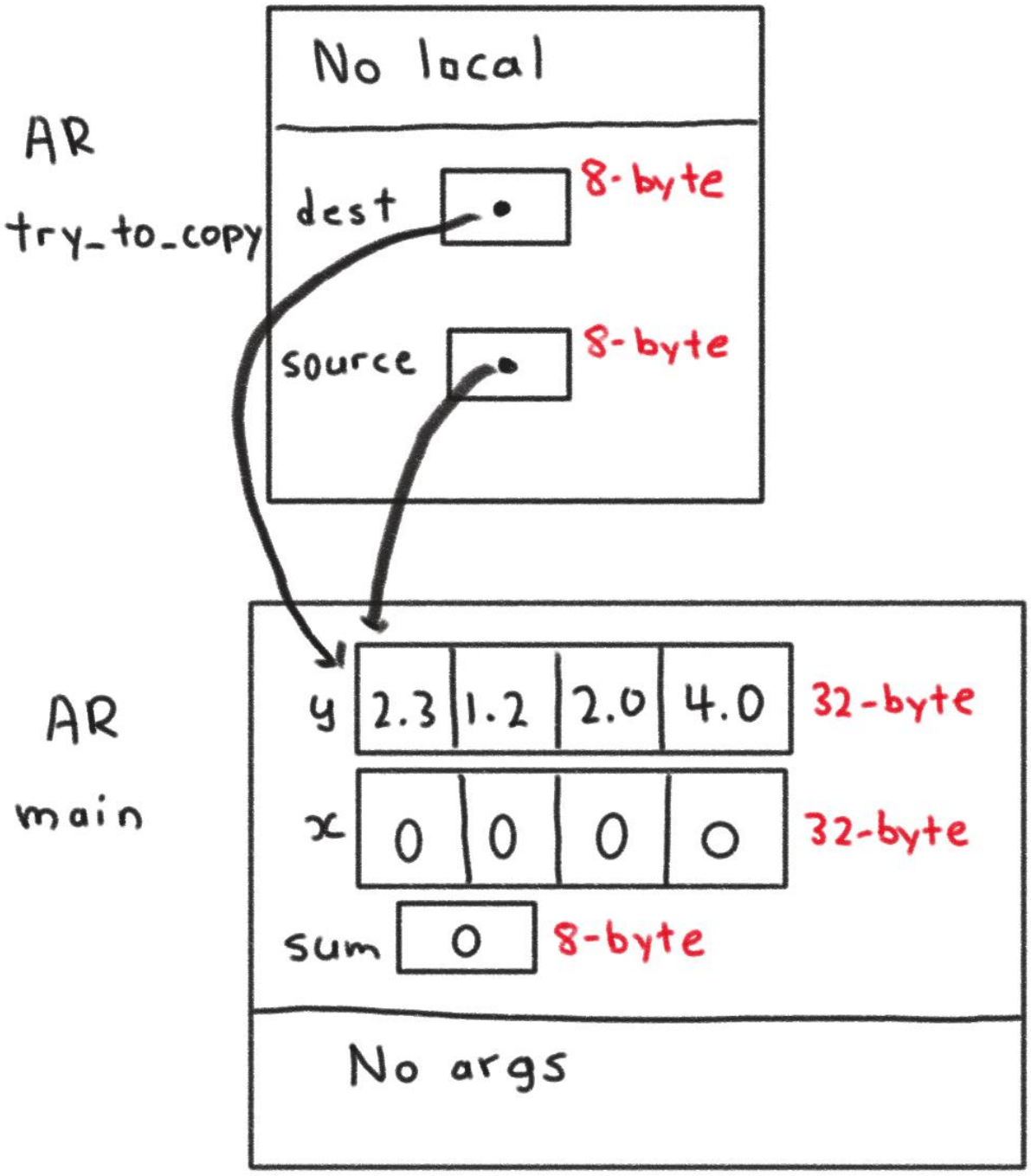
Point 1

Stack



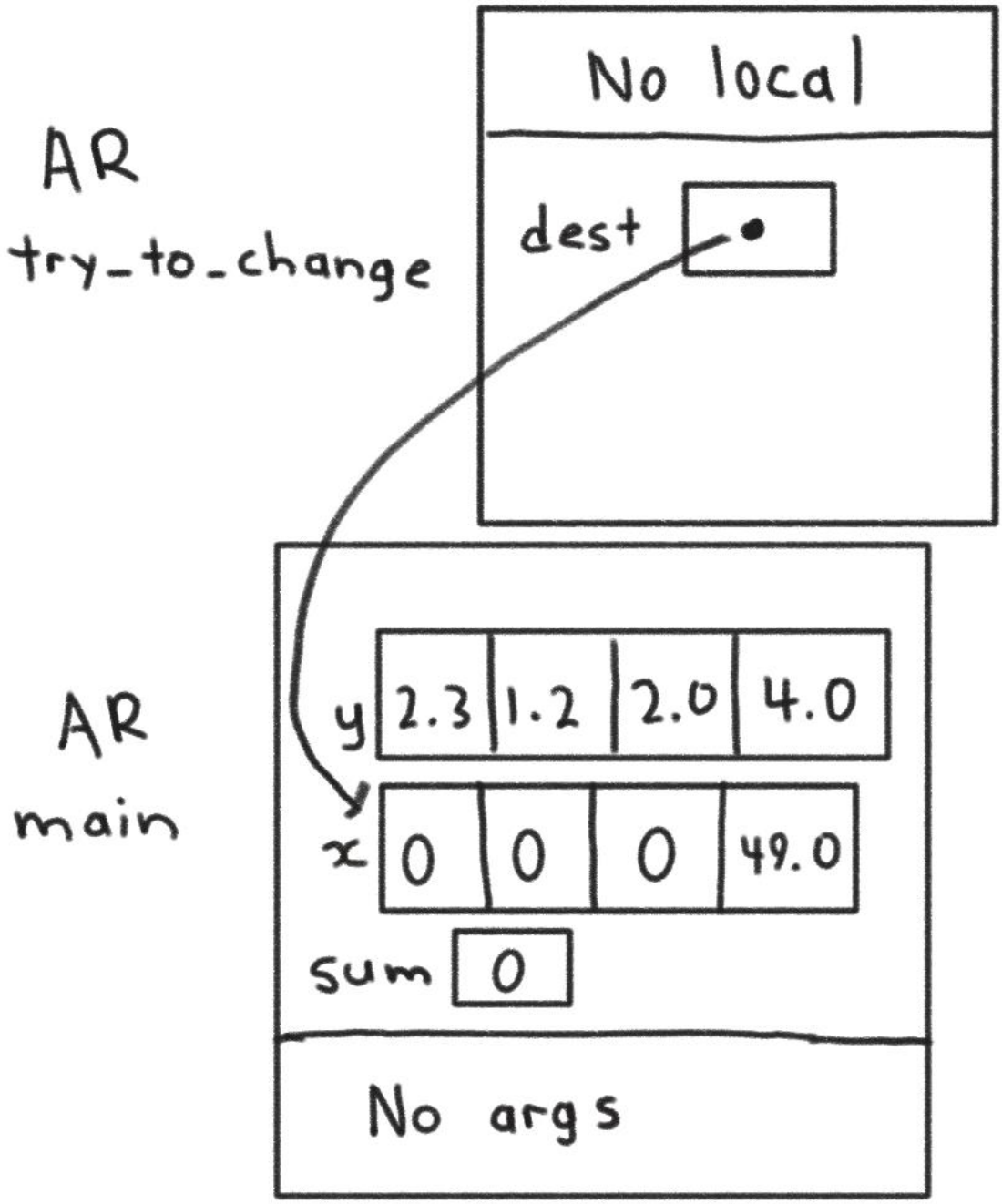
Point 2

Stack



Point 3

Stack



Point 4

Stack