



Test program output:

1. check collision between fig_A and fig_B :
!! there is NO collision !!
=====
2. check collision between fig_0 and fig_A :
!! can't check collision, invalid figure geometry !!
=====
3. check collision between fig_G and fig_A :
!! there is collision !!
=====
4. check collision between fig_A and fig_G :
!! there is collision !!
=====
5. check collision between fig_C and fig_B :
!! there is collision !!
=====
6. check collision between fig_C and fig_A :
!! there is collision !!
=====
7. check collision between fig_A and fig_J :
!! there is collision !!
=====
8. check collision between fig_J and fig_F :
!! there is collision !!
=====
9. check collision between fig_D and fig_H :
!! there is collision !!
=====
10. check collision between fig_H and fig_A :
!! there is NO collision !!
=====

fig_A:

1	2
4	3
2	4

fig_B:

8	7
5.61	7.18
4.39	6.12
4.76	4.8
6.67	4.98

fig_C:

5.79	5.28
3.4	5.47
2.17	4.4
2.55	3.08
4.45	3.26

fig_D:

-1.06	5.28
-3.45	5.47
-4.67	4.4
-4.3	3.08
-2.39	3.26

fig_E:

-1.06	-1.83
-3.45	-1.64
-4.67	-2.71
-4.3	-4.02
-2.39	-3.85

fig_F:

5.09	-1.83
2.07	-1.64
1.48	-2.71
1.85	-4.02
3.76	-3.85

fig_G:

3.2	2.1
-0.24	2.28
-2.0	0.73
-1.46	-1.16
1.28	-0.91

fig_H:

2.45	-3.98
0.89	-5.32
-4.16	3.73
-5.73	2.3