Segment:

**public** **static** **void** main(String[] args){

Point p=**new** Point(22,2);

Segment s=**new** Segment(2,4,3,6);

System.*out*.println(s);

System.*out*.println(s.getP1());

System.*out*.println(s.isCollinear(p));

System.*out*.println(s.getSlope());

}

=======================🡺

[(2, 4), (3, 6)]

(2.0, 4.0)

false

2.0

Fraction:

**public** **static** **void** main(String[] args) {

Fraction x = **new** Fraction(1, 2);

Fraction y = **new** Fraction(1, 4);

Fraction z = x.times(y);

Fraction w = x.plus(y);

System.*out*.println(x + " \* " + y + " = " + z);

System.*out*.println(x + " + " + y + " = " + w);

}

===================🡺

1/2 \* 1/4 = 1/8

1/2 + 1/4 = 6/8

Cards:

**public** **static** **void** main(String[] args) {

Card c1 = **new** Card("10", "Hearts");

Card c2 = **new** Card("Q", "Spades");

System.*out*.println(c1);

System.*out*.println(c2);

System.*out*.println(c1.isOfSuit("Hearts")); // should print true

System.*out*.println(c2.isOfSuit("Hearts")); // should print false

System.*out*.println(c1.stronger(c2)); // should print false

}

=========================🡺

10H

QS

true

false

false

Rectangle:

**public** **static** **void** main(String[] args){

Rectangle r=**new** Rectangle(2,5,20,10);

System.*out*.println(r.getHeight());

System.*out*.println(r.getWidth());

System.*out*.println(r.intersection(**new** Rectangle(2,5,3,4)));

System.*out*.println(r.union(**new** Rectangle(5,4,3,2)));

}

========================🡺

10

20

Rectangle[x=2, y=5, width=3, height=4]

Rectangle[x=2, y=4, width=20, height=11]