Problem 1:

```
5     public static void main(String[] args) {
6         int selection;
7         boolean isYes;
8         int dice1, dice2, dice3;
9
10        selection = JOptionPane.showConfirmDialog(null,"Would you lke to play a dice rolling game?\nYou start out with "
11                + "$200 and are able to bet", "Dice Game Begin 1", JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE);
12        isYes = (selection == JOptionPane.YES_OPTION);
13
14        if(isYes) {
15            boolean gameLoop = true;
16            boolean gamble;
17            int money = 200;
18            int bet = 0;
19
20
21
22            while(gameLoop && money > 0) {
23
24                selection = JOptionPane.showConfirmDialog(null,"Would you like to bet?\nYou have $"
25                + money, "Dice Game Bet",JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE);
26                gamble = (selection == JOptionPane.YES_OPTION);
27                if(gamble) {
28                    bet = Integer.parseInt(JOptionPane.showInputDialog("How much of your\n" +
29                money + " would you like to bet?"));
30
31                    while(bet > money && bet > 0) {
32                        if(bet > 0) {
33                            JOptionPane.showMessageDialog(null, "That is an invalid bet amount",
34                                    "Error", JOptionPane.ERROR_MESSAGE);
35                        }
36                        else {
37                            JOptionPane.showMessageDialog(null, "You must bet more than 0", "Error",
38                                    JOptionPane.ERROR_MESSAGE);
39
40                            }
41                            bet = Integer.parseInt(JOptionPane.showInputDialog("How much of your\n" +
42                            money + " would you like to bet?"));
43                        }
44
45                        money -= bet;
46                    }
47
48                    dice1 = (int)(Math.random() * 6) + 1;
49                    dice2 = (int)(Math.random() * 6) + 1;
50                    dice3 = (int)(Math.random() * 6) + 1;
51
52                    JOptionPane.showMessageDialog(null, "Die 1: " + dice1 + "\nDice 2: " +
53                    dice2 + "\nDice 3: " + dice3);
54                    if((dice1 == dice2 && dice2 == dice3)) {
55                        JOptionPane.showMessageDialog(null,"All three of your dice are a match", "WINNER",
56                                JOptionPane.INFORMATION_MESSAGE);
57                        if(gamble) {
58                            JOptionPane.showMessageDialog(null,"You tripled your bet!", "WINNER",
59                                    JOptionPane.INFORMATION_MESSAGE);
60                            money = money + (bet * 3);
61                        }
62                    }
63                    else if(dice1 == dice2 || dice2 == dice3 || dice3 == dice1) {
64                        JOptionPane.showMessageDialog(null,"Two of your dice are a match!", "WINNER",
65                                JOptionPane.INFORMATION_MESSAGE);
66                        if(gamble) {
67                            JOptionPane.showMessageDialog(null,"You doubled your bet!", "WINNER",
68                                    JOptionPane.INFORMATION_MESSAGE);
69                            money = money + (bet * 2);
70                        }
71                    }
72                    else {
73                        JOptionPane.showMessageDialog(null,"Better luck next time", "Loser",
74                                JOptionPane.ERROR_MESSAGE);
75                        if(gamble) {
                            JOptionPane.showMessageDialog(null,"You lost your bet", "Loser",
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                                JOptionPane.ERROR_MESSAGE);
                        money -= bet;
                    }
                }

                if(money > 0) {
                    selection = JOptionPane.showConfirmDialog(null,"Would you lke to play the die game again?",
                            "Dice Game Begin 2", JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE);
                    gameLoop = (selection == JOptionPane.YES_OPTION);
                }
                else {
                    JOptionPane.showMessageDialog(null, "You're all out of money :(\nSee you next time!", "Bankrupt",
                            JOptionPane.ERROR_MESSAGE);
                }
            }
        }
        else {
            JOptionPane.showMessageDialog(null, "Have a good day!");
        }
    }

}
```
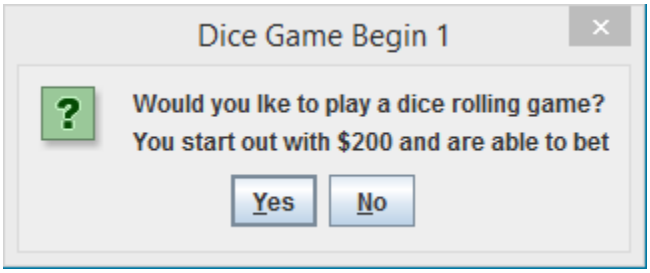
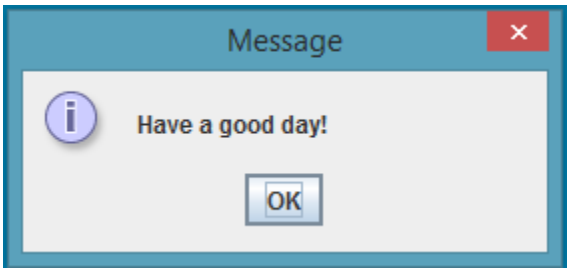
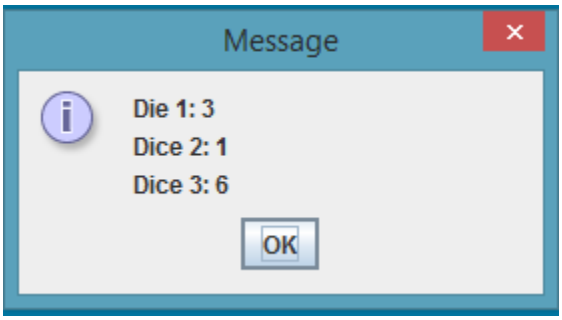
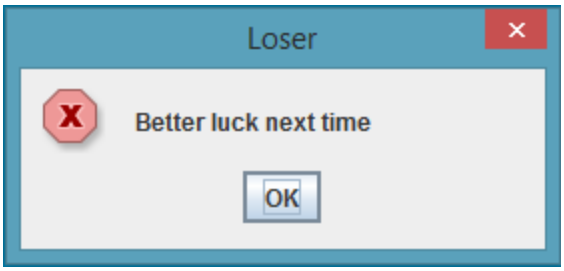
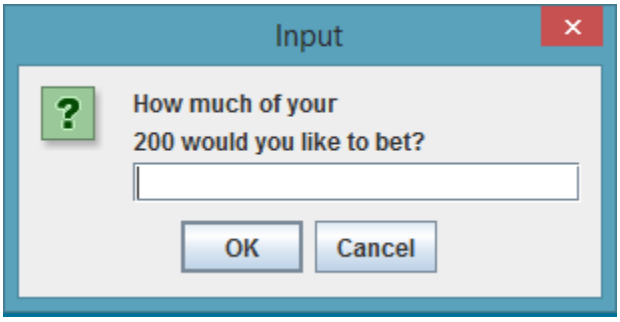



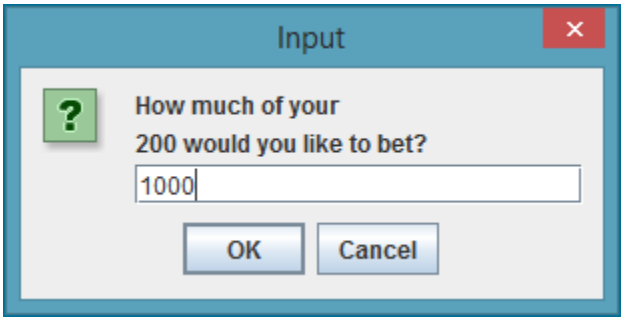


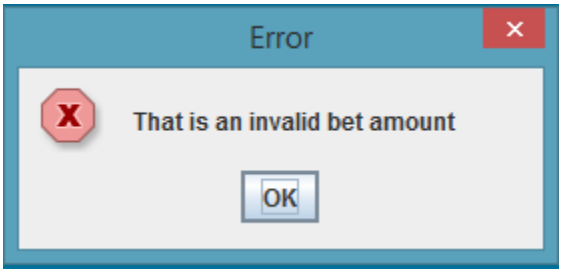


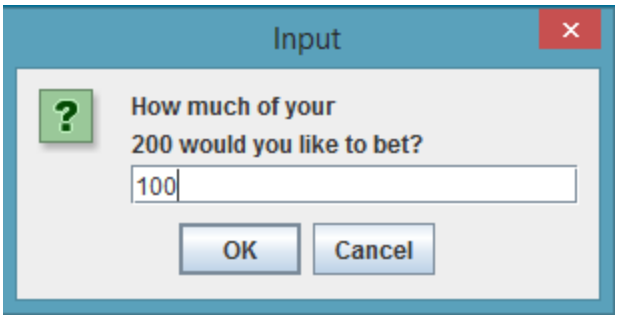

Loser
Better luck next time
OK

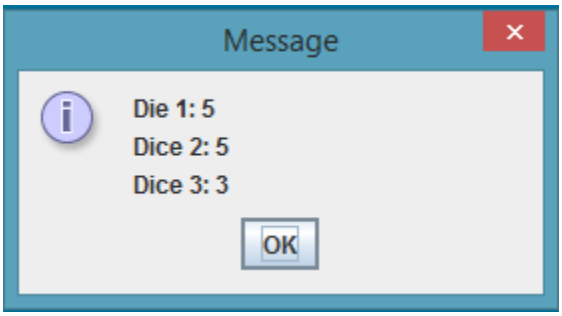
Dice Game Begin 2
Would you lke to play the die game again?
Yes
No

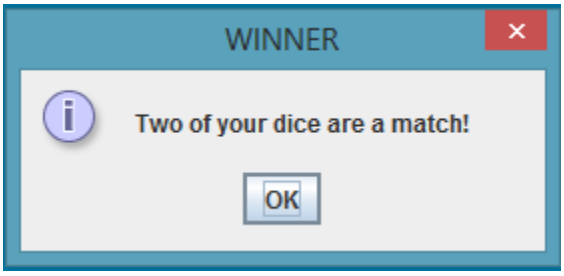

Input
How much of your
200 would you like to bet?
OK
Cancel

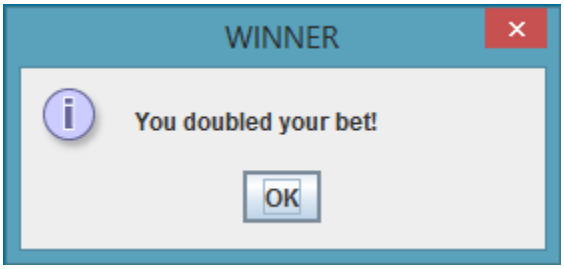

Input
How much of your
200 would you like to bet?
1000
OK
Cancel


Error
That is an invalid bet amount
OK

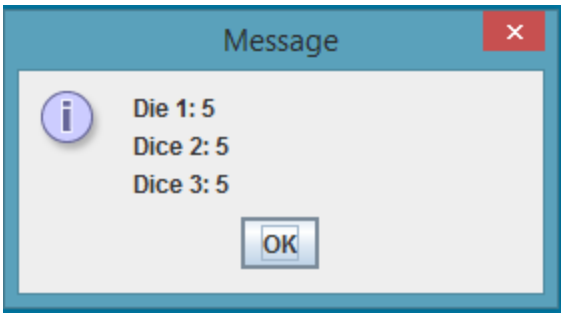

Input
How much of your
200 would you like to bet?
100
OK
Cancel

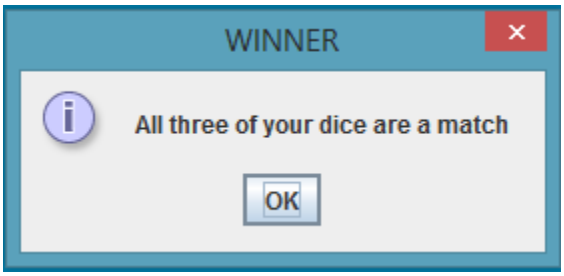

Message
Die 1: 5
Dice 2: 5
Dice 3: 3
OK

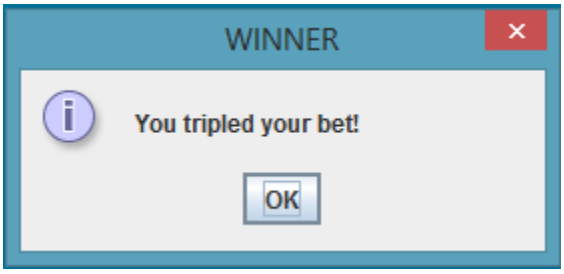

WINNER
Two of your dice are a match!
OK

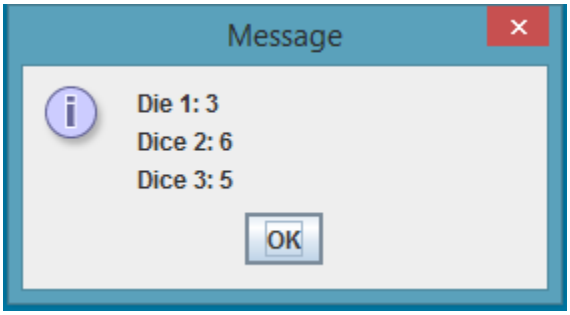

WINNER
You doubled your bet!
OK

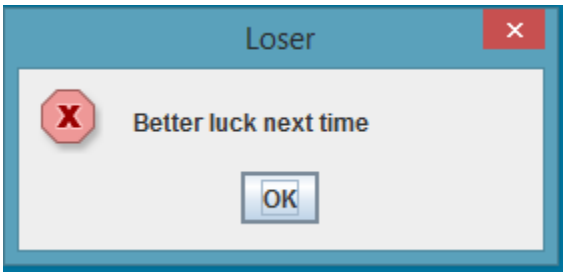
Dice Game Bet
Would you like to bet?
You have $300
Yes
No

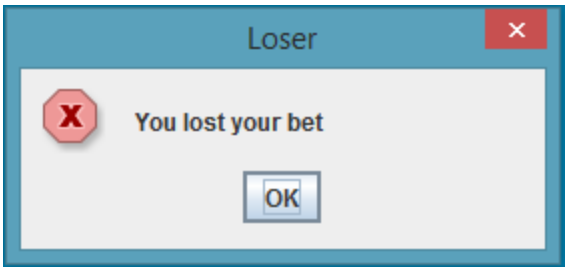

Message
Die 1: 5
Dice 2: 5
Dice 3: 5
OK

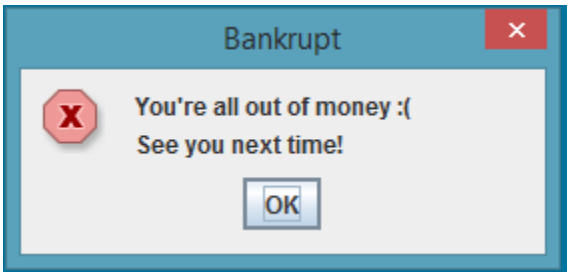

WINNER
All three of your dice are a match
OK


WINNER
You tripled your bet!
OK


Message
Die 1: 3
Dice 2: 6
Dice 3: 5
OK


Loser
Better luck next time
OK


Loser
You lost your bet
OK


Bankrupt
You're all out of money :(
See you next time!
OK