```
public class factorial
1
2
        public static void main(String[] args)
3
        {
4
             System.out.println("1) " + prob1(10));
5
             System.out.println("2) " + prob2(10));
6
             System.out.println("3) " + prob3(10));
7
             System.out.println("4) " + prob4(10));
8
             System.out.println("5) " + prob5(10));
9
             System.out.println("6) " + prob6(10));
10
             System.out.println("7) " + prob7(10));
11
             System.out.println("8) " + prob8(10));
12
             System.out.println("9) " + prob9(10));
13
             System.out.println("10) " + prob10(10));
14
        }
15
16
         public static int prob1(int n)
17
18
             // when n = 1 return 6
19
             // a(n) = a(n-1) + 200
20
             if (n == 1)
21
22
                 return 6;
23
24
             else
25
26
                 return prob1 (n - 1) + 200;
27
28
        }
29
30
        public static int prob2(int n)
31
         {
32
             if (n == 1)
33
34
                 return 26;
35
36
             else
37
38
                 return (2 + prob2(n - 1)) / 2;
39
40
        }
41
42
        public static int prob3(int n)
43
44
             if (n == 1)
45
             {
46
                 return -4;
47
48
             else
49
```

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```
return prob3 (n - 1) + 30;
}
public static double prob4(int n)
   if (n == 1)
   { return 0.5; }
   else
   { return (prob4(n - 1) * 2); }
}
public static int prob5(int n)
   if (n == 1)
    { return 3; }
    { return (prob5(n - 1) + n); }
}
public static int prob6(int n)
   if (n == 1)
   { return -1; }
   else
    { return (prob6(n - 1) + n); }
}
public static int prob7(int n)
{
   if (n == 1)
    { return -35; }
    { return (prob7(n - 1) + 100); }
}
public static int prob8(int n)
{
   if (n == 1)
   { return 3; }
   else
    { return (prob8(n - 1) * -4); }
public static int prob9(int n)
    if (n == 1)
    { return 1; }
   else
    { return(n * prob9(n - 1)); }
}
```

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```
public static int prob10(int n)
{
    if (n == 1)
      { return(5/3); }
    else
      { return(prob10(n - 1) * (1/2)); }
}
```

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