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int Payoff (int[5] values)

Start

sort values array using .sort()

if(values[0] == values[4])

Is this 5 of a kind?

N

if ((values[0] == values[1] && values[1] == values[2] && values[2] == values[3]) || (values[1] == values[2] == values[3] == values[4]) && (values[0] != values[4]))

Is this 4 of a kind?

N

if ((values[0] == values[1] && values[1] == values[2]) && (values[3] == values[4]) && values[2] != values[3])

Is this 3 of a kind + 2 of a kind?

N

if ((values[0] == values[1] == values[2]) || (values[1] == values[2] == values[3]) || values[2] == values[3] == values[4]))

Is this 3 of a kind?

N

if (values[0] == values[1] || values[1] == values[2] || values[2] = values[3] || values[3] == values[4])

Is this 2 of a kind?

Y → Pay $1000000

Y → Pay $10000

Y → Pay $5000

Y → Pay $100

Y → Pay $10

```
int countPerfSquare = 0;
for (int i = 0; i < 5; i++) {
        double sqrt = sqrt.
(values[i]);
        if (sqrt*sqrt = values[i]) {
                countPerfSquare++;
        }
}
if (countPerfSquare > 0) {
        return true;
}
```

Is one or more of the five numbers a perfect square?

Y → Add $7

N

```
int countFortyTwo = 0;
for (int i = 0; i < 5; i++) {
        if (values[i] == 42) {
                countFortyTwo++;
        }
}
if (countFortyTwo > 0) {
        return true;
}
```

Is one or more of the five numbers 42?

Y → Add $2

N

```
int countPowerTwo = 0;
boolean flag = false;
for (int i = 0; i < 5; i++) {
        if (values[i] == 1) {
                flag = true;
        }
        while(values[i]%2 && !flag == 0)
{
                values[i]/=2;
        }
        if(values[i] == 1 && !flag) {
                countPowerTwo++;
        }
}
if (countPowerTwo > 0) {
        return true;
}
```

Add $3

Is one or more of the five numbers a power of two?

Y → Add $3

N → **End**