

HW03

Problem 1

Import java.util.Random,

public class Problem1 {

public static boolean isLeapYear(int year)

{ if (year % 4 == 0)

if (year % 100 == 0)

return year % 400 == 0;

else return true;

else return false;

}

Random rand = new Random();

int count = 0;

for (int i = 0; i < 3; i++) {

years = 1901 + rand.nextInt(100);

if (isLeapYear(year)) count++;

System.out.println("years");

}

if (count >= 2) System.out.println("Most were leap years.");

else System.out.println("Most were not leap years.");

}

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Pruefung 02

(prior: Scanner, Util, Scanner;

public class Problem2 {

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

```
Scanner sc = new Scanner(System.in);
```

```
System.out.print("Your Value");
```

```
String input1 = scanner.nextLine();
```

```
int input2 = sc.nextInt();
```

```
sc.close();
```

```
boolean isPolyns = CsUtils.isPalindrome(input1);
```

```
boolean isPolyn2 = CsUtils.isPalindrome(input2);
```

```
if (isPolyns) System.out.println("Is Palindrome");
```

```
else System.out.println("Is not Palindrome");
```

```
If (isPolyn2) System.out.println("Is Palindrome");
```

```
else System.out.println("Is not Palindrome");
```

```
}
```

```
class CsUtils {
```

```
public static int reverse(int value) {
```

```
int reversed = 0, absV = Math.abs(value);
```

```
boolean negative = value < 0;
```

```
while (absV > 0) {
```

```
int digit = absV % 10;
```

```
reversed = reversed * 10 + digit;
```

public static boolean isPalindrome (String n) {

if (n < 0) {

- return false;

}

return n == reverse(n);

}

public class Reverser {

int left = 0;

int right = s.length() - 1;

while (left < right) {

if (s.charAt(left) != s.charAt(right)) return false;

left++;

right--;

}

return true;

}

Proben {

import java.util.Scanner;

public class Prob3 {

public static void main (String [] args) {

Scanner scanner = new Scanner (System.in);

String n = scanner.nextLine();

System.out.println

~~DATA~~

~~Shy~~ [] firstNames = new String[n];

~~Shy~~ [] lastNames = new String[n];

~~Shy~~ [] scores = new double[n];

for (int i=0; i < n; i++) {

System.out.println("Student " + (i+1) + " score: ");

firstNames[i] = sc.nextLine();

lastNames[i] = sc.nextLine();

scores[i] = sc.nextDouble();

}

double max = scores[0]; int index;

for (int i=1; i < n; i++)

if (scores[i] > max) { max = scores[i]; index = i; }

System.out.println("Honest highest score: " + lastNames[index]);

sum = 0

for (int i=1; i < n; i++)

sum += scores[i];

System.out.println("Total sum: " + sum);

double min = scores[0];

for (int i=1; i < n; i++)

if (scores[i] < min) min = scores[i];

System.out.println("Lowest score: " + min);

} sc.close();

Prüfen 04

Aug. \rightarrow Java. Util. Array;
 Textr. Java. Util. Scanner;
 Es ist class present {

pub static int[] findPartner(int n, int[] arr, int l) {

{ if ($n <= 1$) return result;

if ($n > arr.length - 1$) {

result = appendToArry(result, -1);

return findPartner(n / 2, arr, l),

else result = findPartner(n, arr, l + 1), result);,

}

pub static void appToArry(int t, int[] arr, int val) {

{ int D = new Arry = Arry. copyOf (arr, arr.length + 1),

newArry[newArry.length - 1] = val;

return newArry;

}

pub static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

int[] printArry = findPartner(n, 2, new int[0]);

for (int i = 0; i < printArry.length; i++) {

System.out.println(" " + printArry[i]);

}

Problem 05

Organ: Jungs. abbl. (Haus).

Pick - day Pick 5 {

~~for~~ for (int i = 0; i < n; i++)
 sink and (int i)

 if (arr[i] == new_val[n])

 int val = n * n;

 for (int col = 0; col < n; col++) {

 if (arr[i][col] == 0)

 for (int row = 0; row < n; row++)

 arr[row][col] = val--;

 else if (arr[i][col] == n) {

 arr[i][col] = val--;

 res = arr;

}

Pick 3dts. very hard (show 1st day) {

 int n = 3;

 int LTR = Sedangkan(n)

 for (int i = 0; i < n; i++)

 arr[i].append(Sedangkan(n - 1));

 return

Part 6.

• OOPS : Inheritance

Part class Part 6 {

Part Shug (int [] []) Sphere (int n)

int [] [] diag = new int [n] [n];

int val = n * n;

int top = 0, butt = n - 1;

int left = 0, right = n - 1;

while (val > 0) {

 for (int col = left ; col <= right ; col++) diag [top] [col] = val --;

 top ++;

 for (int row = top ; row <= right ; row++) diag [row] [right] = val --;

 right --;

 for (int col = right ; col >= left ; col--) diag [left] [col] = val --;

 left ++;

 left --;

 right --;

 left ++;

}

return diag;

}

Part Shug run main (Shu [] []) {

 int n = 3;

 int [] [] res = diag (n);

 Print (res [] [2] , result)

 cout . endl . cout . endl ("Sum = " + to_string (sum));