**习题3**

1. **(1) X**

**(2) √**

**(3) √**

**(4) X**

**(5) √**

**(6) √**

**(7) √**

**(8) √**

**(9) X**

**(10) X**

1. **(1) A**

**(2) C**

**(3) B**

**(4) C**

**(5) C**

1. **(1) D**

**(2) B**

**(3) D**

1. **(1) truehello10**

**(2) truehello10**

**(3) 321**

**(4) 5**

**(1)**

**public class No5\_1{**

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

**char c='А';**

**System.out.println("俄文字母表:");**

**for (int i = (int)c; i < c + 32; i++){**

**System.out.println((char)i + " ");**

**}**

**}**

**}**

**(2)**

**public class No5\_2 {**

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

**long x = 1;**

**long sum = 0;**

**for (int i = 1; i <= 20; i++){**

**x \*= i;**

**sum += x;**

**}**

**System.out.println(sum);**

**}**

**}**

**(3)**

**public class No5\_3 {**

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

**int sum = 0;**

**int sushu = 0;**

**for (int i = 2; i < 100; i++){**

**sushu = i;**

**for (int j = 2; j < i; j++){**

**if (sushu % j == 0){**

**sushu = 0;**

**break;**

**}**

**}**

**sum += sushu;**

**}**

**System.out.println(sum);**

**}**

**}**

**(4)**

**public class No5\_4 {**

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

**double sum = 0;**

**long jc = 1;**

**for (int i = 1; i <= 20; i++){**

**jc \*= i;**

**sum += 1.0/jc;**

**}**

**System.out.println(sum);**

**}**

**}**

**(5)**

**public class No5\_5 {**

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

**int sum = 0;**

**for (int i = 2; i < 1000; i++){**

**sum = 0;**

**for (int j = 1; j < i; j++){**

**if (i % j == 0){**

**sum += j;**

**}**

**}**

**if (sum == i){**

**System.out.println(i);**

**}**

**}**

**}**

**}**

**(6)**

**import java.util.Scanner;**

**public class No5\_6 {**

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

**Scanner reader = new Scanner(System.in);**

**int a, b;**

**int min;**

**int Lcm = 1, Hcf = 1;**

**a = reader.nextInt();**

**b = reader.nextInt();**

**if (a >= b){**

**min = b;**

**}**

**else{**

**min = a;**

**}**

**for (int i = min; i >= 1; i++){**

**if (a % i == 0 && b % i == 0){**

**Hcf = i;**

**break;**

**}**

**}**

**for (int i = min; i <= a \* b; i++){**

**if (i % a == 0 && i % b == 0){**

**Lcm = i;**

**break;**

**}**

**}**

**System.out.println("最大公约数：" + Hcf);**

**System.out.println("最小公倍数：" + Lcm);**

**reader.close();**

**}**

**}**

**(7)**

**public class No5\_7 {**

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

**int fac = 1, i = 1, sum = 0;**

**while (true){**

**sum += fac;**

**if (sum > 9999){**

**break;**

**}**

**i += 1;**

**fac \*= i;**

**}**

**System.out.println(i - 1);**

**}**

**}**