Subiect de bacalaureat 2022

S1.

1.c

2.d

3.a

4.a

5.c

S2.

1. 4
2. 10, 11
3. #include <iostream>

using namespace std;

int main() {

int n, I, k;

cin >> n;

i = 2;

k = 0;

While (n >= i) {

While (n % I == 0) {

k++;

n /= i;

}

If (I == 2)

I++;

Else

I += 2;

}

}

citeşte n

(număr natural)

I=2; k=0

Daca n >= I atunci

┌executa

│┌cât timp n%i=0 execută

││ k=k+1

││ n=[n/i]

│└■

│┌dacă i=2 atunci i=i+1

││altfel i=i+2

│└■

└■pana cand (n < i)

scrie k

2.

2021, 2022

3.

strcat(id, “Popescu”);

strcat(id, “2022”);

S3.

#include <bits/stdc++.h>

using namespace std;

string fileName = "number";

ifstream fin(fileName + ".in");

ofstream fout(fileName + ".out");

int main() {

int n;

cin >> n;

int res = 0, p10 = 1;

while (n > 9) {

int nr = n % 100;

if (nr == 22)

nr = 20;

res += nr \* p10;

n /= 100;

p10 \*= 100;

}

if (n) {

res += n \* p10;

}

cout << res;

return 0;

}

Greseli:

1. S1 - 4 - raspuns correct b
2. S2 – 1.b – 10 nu e numar prim
3. S2 – 2 -2021 numar invalid
4. S2 -3 – programul nu tine cont de s
5. S3 – 1 – programul nu ia anumite cazuri