

15. ožujka 2017. od 09:00 do 11:00

2017^v natjecanje iz informatike **Državno**

Državno natjecanje / Osnovna škola (7. razred)
Algoritmi (Logo)

SLUŽBENI TEST PODACI



Agencija za odgoj i obrazovanje
Education and Teacher Training Agency



HRVATSKI SAVEZ
INFORMATIČARA



Ministarstvo znanosti,
obrazovanja i sporta



HRVATSKA
ZAJEDNICA
TEHNIČKE
KULTURE

Zadatak 1: Batman

30 bodova

	Primjer	Slika	Bodovi
Test 1	CS BATMAN 100 0	Slika 1.1	5
Test 2	CS BATMAN 132 0	Slika 1.2	5
Test 3	CS BATMAN 34 0	Slika 1.3	5
Test 4	CS BATMAN 160 120	Slika 1.4	5
Test 5	CS BATMAN 78 67	Slika 1.5	5
Test 6	CS BATMAN 107 43	Slika 1.6	5

Napomena: bodovi se dodjeljuju ako je slika ispravno nacrtana i nije se pojavila nikakva greška.

Zadatak 2: Voda

40 bodova

	Primjer	Slika	Bodovi
Test 1	CS VODA 100 100 100 50	Slika 2.1	4
Test 2	CS VODA 150 150 50 50	Slika 2.2	4
Test 3	CS VODA 200 200 100 0	Slika 2.3	4
Test 4	CS VODA 100 0 200 0	Slika 2.4	4
Test 5	CS VODA 0 300 80 30	Slika 2.5	4
Test 6	CS VODA 50 0 300 270	Slika 2.6	4
Test 7	CS VODA 100 130 100 50	Slika 2.7	4
Test 8	CS VODA 200 50 200 10	Slika 2.8	4
Test 9	CS VODA 400 200 50 35	Slika 2.9	4
Test 10	CS VODA 10 100 300 50	Slika 2.10	4

Napomena: bodovi se dodjeljuju ako je slika ispravno nacrtana i nije se pojavila nikakva greška.

Zadatak 3: Imenik

60 bodova

	Primjer	Bodovi
Test 1	SHOW IMENIK [[DIDIER DROGBA]] [[DIDIER DROGBA]]	6
Test 2	SHOW IMENIK [[TONI MILUN] [MISLAV BAGO] [ENA OSTER]] [[MISLAV BAGO] [TONI MILUN] [ENA OSTER]]	6
Test 3	SHOW IMENIK [[A AABC] [A ABCD] [A AB] [A ABB] [A AAB] [A ACC] [A AAA] [A AA] [A ABC] [A ABBA]] [[A AA] [A AAA] [A AAB] [A AABC] [A AB] [A ABB] [A ABBA] [A ABC] [A ABCD] [A ACC]]	6
Test 4	SHOW IMENIK [[ANAMARIJA MARIJA] [IVAN HORVAT] [ANA MARIJA] [GORAN HORVAT] [ANAMARIA MARIJA] [MARKO HORVAT] [BRUNO HORVAT]] [[BRUNO HORVAT] [GORAN HORVAT] [IVAN HORVAT] [MARKO HORVAT] [ANA MARIJA] [ANAMARIA MARIJA] [ANAMARIJA MARIJA]]	6
Test 5	SHOW IMENIK [[VITO ANIC-] [MATIJA POLGAR] [ANTONIO DIJANIC-] [BERNARD INKRET] [DORIJAN LENDVAJ] [BORIS S+PANIC-] [PATRIK BLAS+KOVIC-]] [[VITO ANIC-] [PATRIK BLAS+KOVIC-] [ANTONIO DIJANIC-] [BERNARD INKRET] [DORIJAN LENDVAJ] [MATIJA POLGAR] [BORIS S+PANIC-]]	6
Test 6	SHOW IMENIK [[SLAVEN BILIC-] [MARIN C+ILIC-] [SLAVEN BILIC] [MARIN CILIC]] [[SLAVEN BILIC] [SLAVEN BILIC-] [MARIN CILIC] [MARIN C+ILIC-]]	6
Test 7	SHOW IMENIK [[MIRKO MIOC+IC-] [EDIN DZ+EKO] [DINO DRPIC-] [GORAN KARAN] [IVAN LJUBIC+IC-] [JANICA KOSTELIC-] [DORIS PINC+IC-] [MARIO BALOTELLI] [TIN UJEVIC-]] [[MARIO BALOTELLI] [DINO DRPIC-] [EDIN DZ+EKO] [GORAN KARAN] [JANICA KOSTELIC-] [IVAN LJUBIC+IC-] [MIRKO MIOC+IC-] [DORIS PINC+IC-] [TIN UJEVIC-]]	6
Test 8	SHOW IMENIK [[EDIN DZ+EKO] [DZ+ORE DRZ+IC-] [EDIN DZEKO] [MARIN DRZ+IC-] [LJUDEVIT GAJ] [LADEVIT GAJ]] [[DZ+ORE DRZ+IC-] [MARIN DRZ+IC-] [EDIN DZEKO] [EDIN DZ+EKO] [LADEVIT GAJ] [LJUDEVIT GAJ]]	6
Test 9	SHOW IMENIK [[MIRZA DZ+OMBA] [DZ+ONI S+TULIC-] [NATALI DIZDAR] [DZ+ANI TAFRA] [DZ+ORE S+TULIC] [LANA JURC+EVIC-] [NATALIJA DIZDAR] [KRUNOSLAV JURC+IC-] [BRANIMIR FILIPOVIC-] [LJILJANA JURC+EVIC-] [MILJANA SMILJANA] [LJILJANA SMILJANA] [IVICA SOLOMUN] [MILENA SMILJANA] [KRALJ SALOMON] [TARIK FILIPOVIC-] [DZ+ONI TAFRA]] [[NATALI DIZDAR] [NATALIJA DIZDAR] [MIRZA DZ+OMBA] [BRANIMIR FILIPOVIC-] [TARIK FILIPOVIC-] [LANA JURC+EVIC-] [LJILJANA JURC+EVIC-] [KRUNOSLAV JURC+IC-] [KRALJ SALOMON] [LJILJANA SMILJANA] [MILENA SMILJANA] [MILJANA SMILJANA] [IVICA SOLOMUN] [DZ+ORE S+TULIC] [DZ+ONI S+TULIC-] [DZ+ANI TAFRA] [DZ+ONI TAFRA]]	6

Test 10	SHOW IMENIK [[JOE S+IMUNIC-] [JANJA HORVAT] [N C+] [DZ+ C+] [ANJA HORVAT] [DZ+ DZ+] [PETAR S+IMUN] [Z+ C+] [S+ C+] [D-ORD-E BALAS+EVIC-] [DZ+ORDZ+ BALAS+] [JOSIP GOLUBAR] [ANA Z+DZ+Z+DZ+] [ANJA Z+DZ+Z+DZ+] [OLJA BALAS+EVIC-] [NJ C+] [DZ+OE S+IMUNIC-] [ANA HORVAT] [DINO GOLUBIC-] [TANJA HORVAT] [LJANJA HORVAT] [MARIN GOLUB] [DOMAGOJ ALAGIC-] [LJ C+] [L C+] [JOSIP S+IMUNIC-] [Z+DZ+ DZ+] [LJ C-] [ANNA HORVAT] [TOM KRUIZ] [DZ+ C-] [DZ+Z+ DZ+] [GAJ ALAGIC-]]	6
	[[DOMAGOJ ALAGIC-] [GAJ ALAGIC-] [DZ+ORDZ+ BALAS+] [D-ORD-E BALAS+EVIC-] [OLJA BALAS+EVIC-] [DZ+ C+] [L C+] [LJ C+] [N C+] [NJ C+] [S+ C+] [Z+ C+] [DZ+ C-] [LJ C-] [DZ+ DZ+] [DZ+Z+ DZ+] [Z+DZ+ DZ+] [MARIN GOLUB] [JOSIP GOLUBAR] [DINO GOLUBIC-] [ANA HORVAT] [ANNA HORVAT] [ANJA HORVAT] [JANJA HORVAT] [LJANJA HORVAT] [TANJA HORVAT] [TOM KRUIZ] [PETAR S+IMUN] [DZ+OE S+IMUNIC-] [JOE S+IMUNIC-] [JOSIP S+IMUNIC-] [ANA Z+DZ+Z+DZ+] [ANJA Z+DZ+Z+DZ+]]	

Napomena: bodovi se dodjeljuju ako je ispis točan i nije se pojavila nikakva greška. Ako program javlja pogrešku jer rješenje ne koristi OP, dodjeljuje se 4 boda po test podatku.

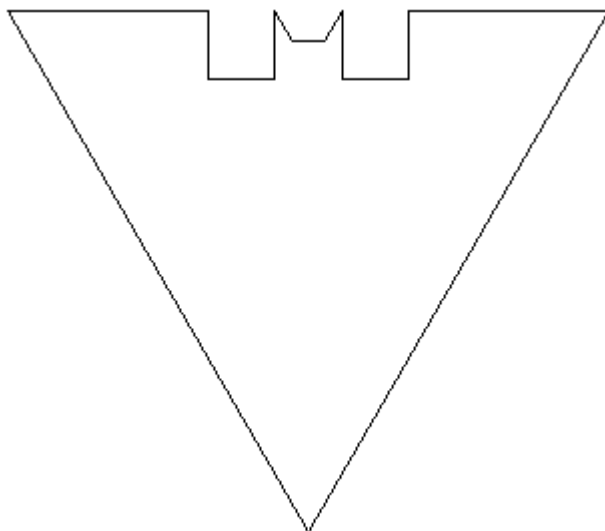
Zadatak 4: Nonogram

70 bodova

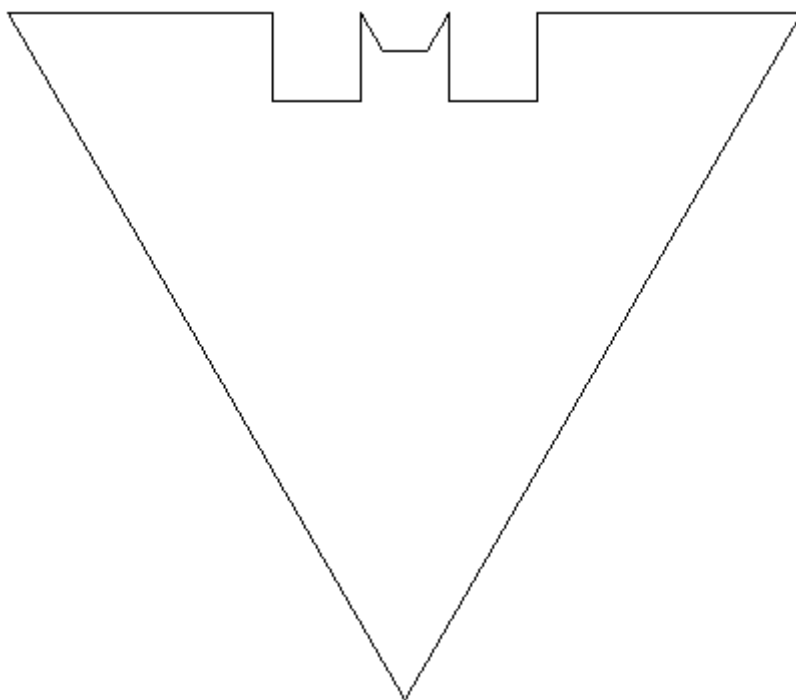
	Primjer	Slika	Bodovi
Test 1	CS NONOGRAM [[0] [0] [0]] [[0] [0]] 30	Slika 4.1	2
Test 2	CS NONOGRAM [[0] [5] [0]] [[1] [1] [1] [1] [1]] 30	Slika 4.2	2
Test 3	CS NONOGRAM [[2] [0] [0] [0] [0] [0]] [[1] [1]] 20	Slika 4.3	2
Test 4	CS NONOGRAM [[1] [1] [1] [1] [1] [1]] [[6] [0]] 20	Slika 4.4	2
Test 5	CS NONOGRAM [[1] [1] [1]] [[0] [3] [0]] 20	Slika 4.5	2
Test 6	CS NONOGRAM [[1] [3] [1]] [[1] [3] [1]] 20	Slika 4.6	3
Test 7	CS NONOGRAM [[4] [1 1] [4] [1 1] [4]] [[1 1 1] [5] [1 1 1] [5]] 20	Slika 4.7	3
Test 8	CS NONOGRAM [[1 1 1] [0] [1 1 1]] [[1 1] [0] [1 1] [0] [1 1]] 30	Slika 4.8	3
Test 9	CS NONOGRAM [[1 3] [0] [3 1]] [[1 1] [1] [1 1] [1] [1 1]] 30	Slika 4.9	3
Test 10	CS NONOGRAM [[1] [2] [3] [2] [1]] [[1] [3] [5]] 15	Slika 4.10	3
Test 11	CS NONOGRAM [[2 2] [1 3] [1 1 1]] [[1] [3] [0] [3] [2] [2]] 15	Slika 4.11	3
Test 12	CS NONOGRAM [[1 1] [3] [4] [3] [1 1]] [[1 1 1] [3] [5] [3]] 20	Slika 4.12	3
Test 13	CS NONOGRAM [[1] [2] [3] [4]] [[1] [2] [3] [4]] 20	Slika 4.13	3
Test 14	CS NONOGRAM [[1] [3] [4] [1 1] [3]] [[1] [4] [3 1] [4]] 20	Slika 4.14	3
Test 15	CS NONOGRAM [[5] [1 1 1] [1 1 1] [3]] [[3] [1 1] [4] [1 1] [3]] 20	Slika 4.15	3
Test 16	CS NONOGRAM [[3] [1 1] [2 2] [2 2]] [[3] [1 2] [1] [1 2] [3]] 20	Slika 4.16	3
Test 17	CS NONOGRAM [[4] [1 2] [3] [2]] [[1] [4] [1 2] [3] [1]] 20	Slika 4.17	3
Test 18	CS NONOGRAM [[1 1 1] [1 1] [1 1 1]] [[1] [1] [1] [1 1] [1] [1 1]] 20	Slika 4.18	3
Test 19	CS NONOGRAM [[3] [3 1] [1]] [[0] [2] [2] [3] [0] [1]] 20	Slika 4.19	3
Test 20	CS NONOGRAM [[1 3 1] [1]] [[1] [0] [0] [0] [1] [2] [1] [0] [0] [1]] 20	Slika 4.20	9
Test 21	CS NONOGRAM [[1 2 3 4]] [[1] [0] [1] [1] [0] [0] [1] [1] [1] [0] [1] [1] [1] [1] [0]] 20	Slika 4.21	9

Napomena: bodovi se dodjeljuju ako je slika ispravno nacrtana i nije se pojavila nikakva greška.

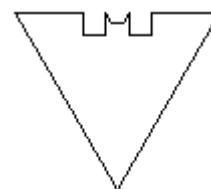
Slike 1: Batman



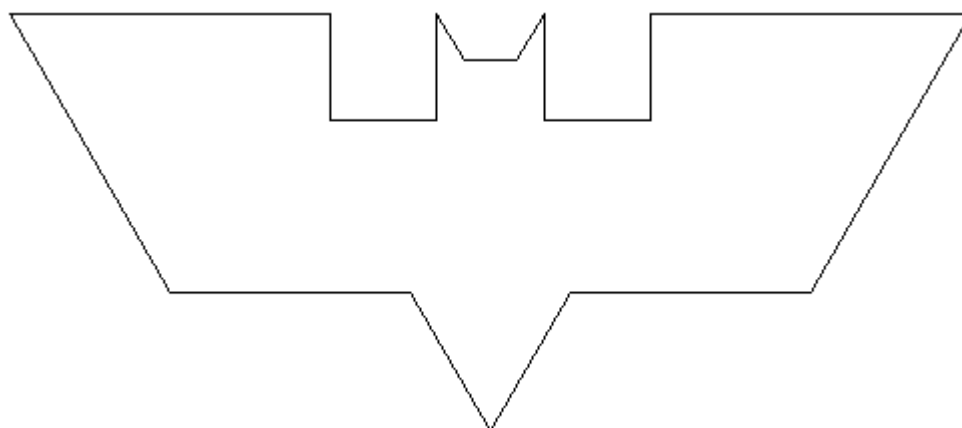
Slika 1.1



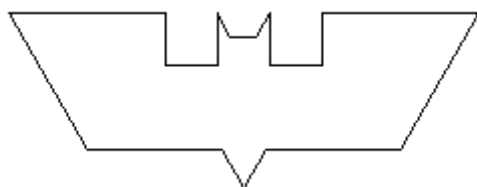
Slika 1.2



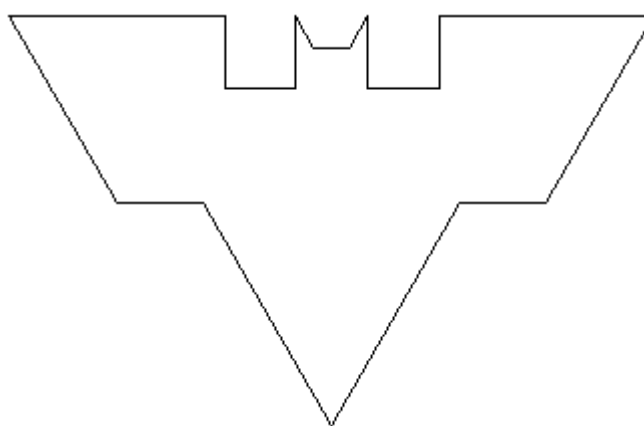
Slika 1.3



Slika 1.4

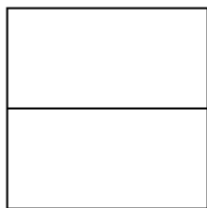


Slika 1.5

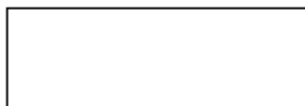


Slika 1.6

Slike 2: Voda



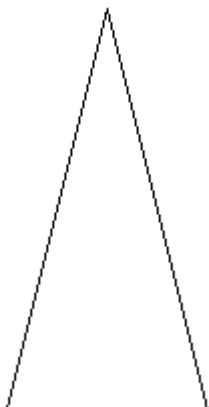
Slika 2.1



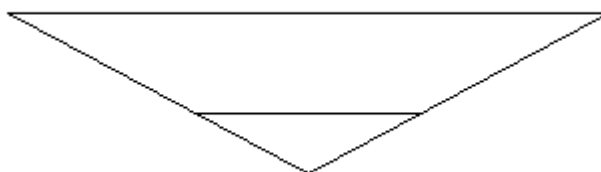
Slika 2.2



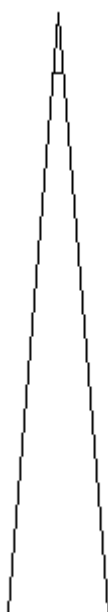
Slika 2.3



Slika 2.4



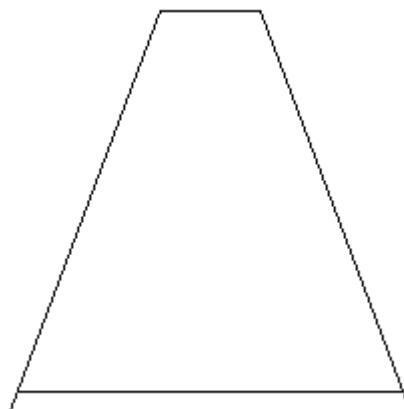
Slika 2.5



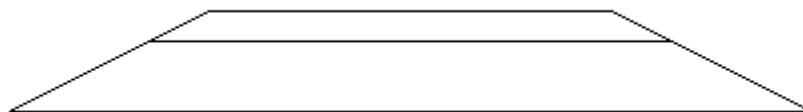
Slika 2.6



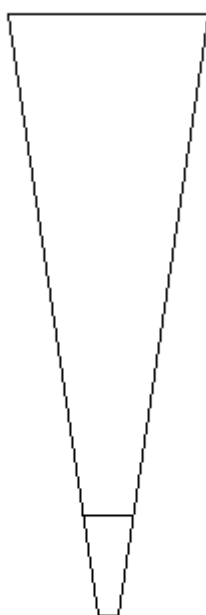
Slika 2.7



Slika 2.8

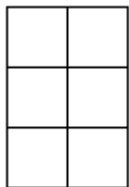


Slika 2.9

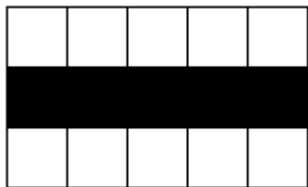


Slika 2.10

Slike 4. Nonogram



Slika 4.1



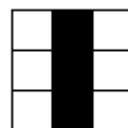
Slika 4.2



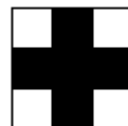
Slika 4.3



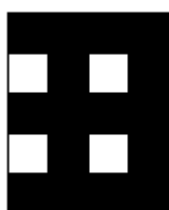
Slika 4.4



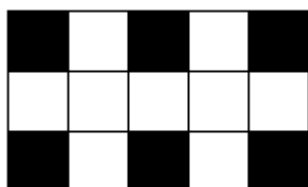
Slika 4.5



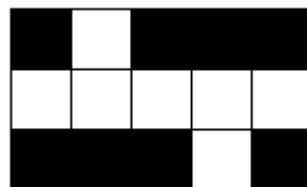
Slika 4.6



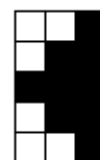
Slika 4.7



Slika 4.8



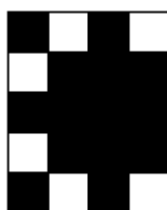
Slika 4.9



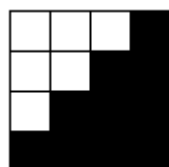
Slika 4.10



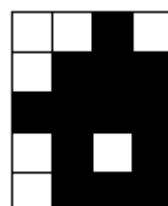
Slika 4.11



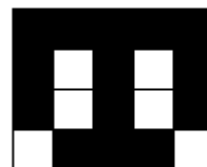
Slika 4.12



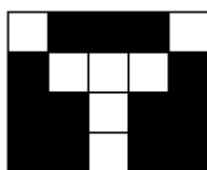
Slika 4.13



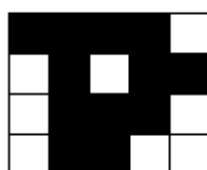
Slika 4.14



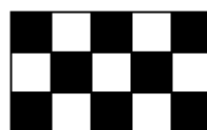
Slika 4.15



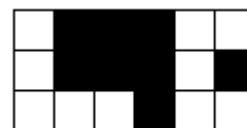
Slika 4.16



Slika 4.17



Slika 4.18



Slika 4.19



Slika 4.20



Slika 4.1