**MATEMATIČNA DELAVNICA 7**

**Dejavnost ustreza za 2 šolski uri, torej za 2 tedna. V šolo prinesi rešitve, lahko pa mi jih (ali kot sliko, sken, wordov dokument) pošlješ že po e-mailu:** [**ntpdgr@gmail.com**](mailto:ntpdgr@gmail.com)

**PALINDROMNA ŠTEVILA**

PALINDROMNO ŠTEVILO JE TAKŠNO ŠTEVILO, KI GA Z LEVE IN DESNE STRANI PREBEREMO NA ENAK NAČIN.

Npr. 55, 121, 2332, TUDI VSA ENOMESTNA ŠTEVILA SO PALINDROMNA: 1,2,3,...

10 PA NI PALINDROMNO ŠTEVILO.

Predstavitev naloge:

Npr: Izberemo dvomestno število 27. Zamenjamo vrstni red števk in zapišemo število 72. Vsota števil 27 in 72 je 99. ZAPIS: 27 + 72 = 99

Število 99 je palindromno število, saj ga z leve in desne strani preberemo na enak način.

KAJ BOŠ DELAL-A?

Koliko števil med prvimi devetindevetdesetimi naravnimi števili ima lastnost, da je vsota izbranega števila in števila, ki ga dobimo tako, da zamenjamo vrstni red števk, palindromno število?

V pomoč ti bo tabela, v katero zapisuješ ustrezna števila-REŠITVE:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  | | --- | --- | --- | | 1.število | 2.število | **VSOTA**  **PALINDROMNO ŠT.** | | 1 | 1 | **2** | | 2 | 2 | **4** | |  |  |  | |  |  |  | | 10 | 1 | **11** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 1.število | 2.število | **VSOTA**  **PALINDROMNO ŠT.** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | | 92 | 29 | 121 | |  |

UGOTOVITEV:

V preglednici bodo zapisana vsa palindromna števila, ki so vsote naravnega števila do 99 in števila z zamenjanim vrstnim redom števk.

Našel boš 14 različnih palindromnih števil: štiri števila z eno števko, devet števil z dvema števkama in eno število s tremi števkami.

**2. naloga: Preveri, ali drži spodnja trditev? Dokaži na svoj način.**

Vsa zapisana dvomestna in trimestna palindromna števila so večkratniki števila 11.