

|          |          |          |          |
|----------|----------|----------|----------|
| $a_1$    | $a_2$    | $a_3$    | $a_4$    |
| $a_5$    | $a_6$    | $a_7$    | $a_8$    |
| $a_9$    | $a_{10}$ | $a_{11}$ | $a_{12}$ |
| $a_{13}$ | $a_{14}$ | $a_{15}$ | $a_{16}$ |

1.

(  $2 \times 2$ , )  
 $S$

|          |          |          |          |
|----------|----------|----------|----------|
| $a_1$    | $a_2$    | $a_3$    | $a_4$    |
| $a_5$    | $a_6$    | $a_7$    | $a_8$    |
| $a_9$    | $a_{10}$ | $a_{11}$ | $a_{12}$ |
| $a_{13}$ | $a_{14}$ | $a_{15}$ | $a_{16}$ |

,  
 (  $S$ ; )  
 .  
 .

$$a_6 + a_7 + a_{10} + a_{11} = S .$$

$s$

$$a_6 + a_7 + a_{10} + a_{11} = s .$$

$S$  ( -  
 ), -

:

$$(a_1 + a_6 + a_{11} + a_{16}) + (a_4 + a_7 + a_{10} + a_{13}) = 2S$$

$$(a_6 + a_7 + a_{10} + a_{11}) + (a_1 + a_4 + a_{13} + a_{16}) = 2S ,$$

$$s = 2S - (a_1 + a_4 + a_{13} + a_{16}) . \tag{1}$$

$S$

$$a_6 + a_{10} = S - (a_2 + a_{14})$$

$$a_7 + a_{11} = S - (a_3 + a_{15}),$$

$$a_6 + a_7 + a_{10} + a_{11} = 2S - (a_2 + a_3 + a_{14} + a_{15}),$$

...

$$s = 2S - (a_2 + a_3 + a_{14} + a_{15}) \tag{2}$$

, (1) (2)

$$2s = 2S - (a_1 + a_4 + a_{13} + a_{16}) + 2S - (a_2 + a_3 + a_{14} + a_{15})$$

$$= 4S - (a_1 + a_2 + a_3 + a_4) - (a_{13} + a_{14} + a_{15} + a_{16})$$

$$= 4S - S - S = 2S,$$

$$2s = 2S$$

$$s = S$$

2.

S

• ,

$$a_1 + a_4 + a_{13} + a_{16} = S.$$

$$s = S \quad (1),$$

(1)

$$S = 2S - (a_1 + a_4 + a_{13} + a_{16}),$$

...

$$a_1 + a_4 + a_{13} + a_{16} = S.$$

3.

|          |          |          |          |
|----------|----------|----------|----------|
| $a_1$    | $a_2$    | $a_3$    | $a_4$    |
| $a_5$    | $a_6$    | $a_7$    | $a_8$    |
| $a_9$    | $a_{10}$ | $a_{11}$ | $a_{12}$ |
| $a_{13}$ | $a_{14}$ | $a_{15}$ | $a_{16}$ |

|          |          |          |          |
|----------|----------|----------|----------|
| $a_1$    | $a_2$    | $a_3$    | $a_4$    |
| $a_5$    | $a_6$    | $a_7$    | $a_8$    |
| $a_9$    | $a_{10}$ | $a_{11}$ | $a_{12}$ |
| $a_{13}$ | $a_{14}$ | $a_{15}$ | $a_{16}$ |

$$a_1 + a_2 + a_5 + a_6 = a_{11} + a_{12} + a_{15} + a_{16}$$

$$a_3 + a_4 + a_7 + a_8 = a_9 + a_{10} + a_{13} + a_{14}.$$

$$a_1 + a_2 + a_5 + a_6 = s_1,$$

$$a_{11} + a_{12} + a_{15} + a_{16} = s_2,$$

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$$a_3 + a_4 + a_7 + a_8 = s_3,$$

$$a_9 + a_{10} + a_{13} + a_{14} = s_4.$$

$$2S,$$

$$s_1 + s_2 = 2S \quad s_2 + s_4 = 2S.$$

$$s_1 - s_4 = 0, \quad s_1 = s_4.$$

$$2S, \quad \dots \quad s_2 + s_4 = 2S \quad s_3 + s_4 = 2S,$$

$$s_2 - s_3 = 0, \quad \dots \quad s_2 = s_3.$$

**Статијата прв пат е објавена во списанието НУМЕРУС на  
Сојузот на математичарите на Македонија**