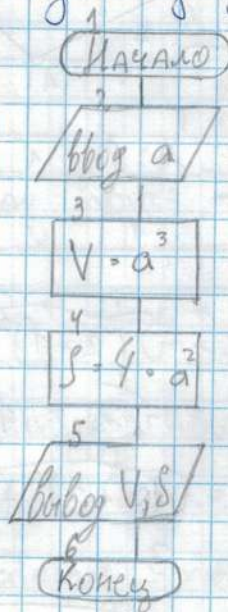


Методич. указания к лаб.р.

07.09.23

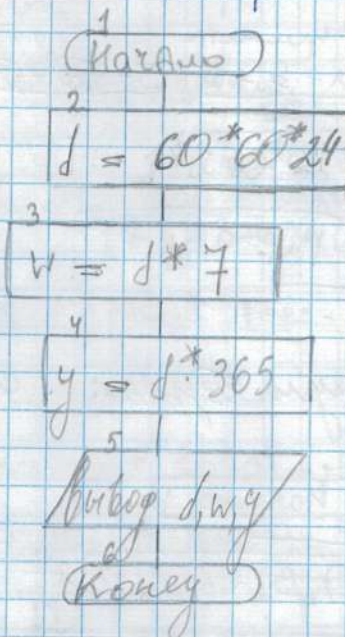
~5.

р 13



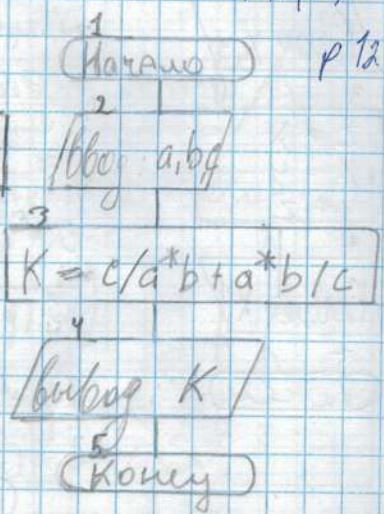
н 1.

н 6. р 13



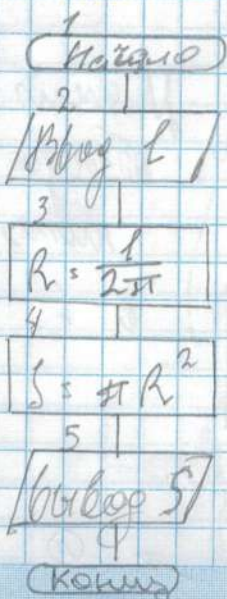
D/3

н 1 (a)

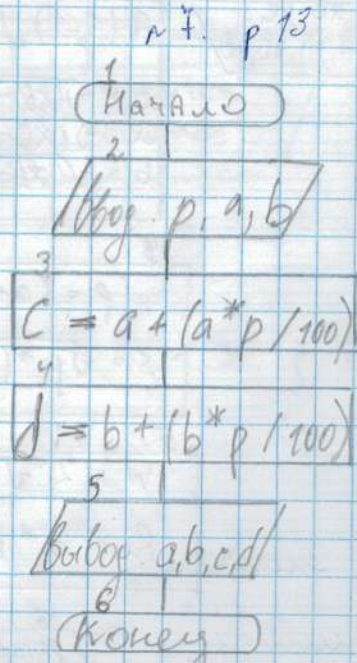
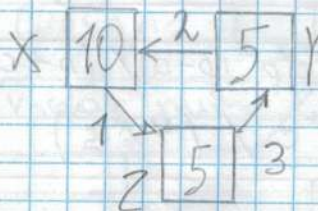


08.09.23

~ 1.1 р. 10



11.09.23





№ 10 p 13.

1 Начало

2 Ввод  $x, y$

3  $z = x$   
 $x = y$   
 $y = z$

4 Вывод  $x, y$

5 Конец

№ 4 p 13.

сторона  $\Delta$

$$b = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

полупериметр

$$p = \frac{a + b + c}{2} = \frac{3 + \sqrt{5} + \sqrt{2}}{2} \approx 3,32514$$

$$s = \sqrt{p(p-a)(p-b)(p-c)}$$

$$s = \sqrt{1,5 \cdot 1,5 \cdot 1,82514 \cdot 1,82514} \approx 1,41421$$

$$s = \sqrt{2} \approx 1,41421$$

Формула Герона

$$c = \sqrt{(2-1)^2 + (2-1)^2} = \sqrt{2} \approx 1,41421$$

$$a = \sqrt{(2+1)^2 + (2-2)^2} = 3$$

$$b = \sqrt{(-1-1)^2 + (2-1)^2} = \sqrt{5} \approx 2,23607$$

$$s = \sqrt{1,5 \cdot 1,5 \cdot 1,82514 \cdot 1,82514} \approx 1,41421$$

$$s = \sqrt{2} \approx 1,41421$$

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№ 2 p 13.  
ввод  $x_A, y_A, x_B, y_B$

1 Начало

2  $A(1,1), B(2,2), C(-1,2)$   
 $c = \sqrt{(x_B - x_A)^2 + (y_B - y_A)^2}$   
 $a = \sqrt{(x_C - x_B)^2 + (y_C - y_B)^2}$   
 $b = \sqrt{(x_A - x_C)^2 + (y_A - y_C)^2}$

3  $p = (a + b + c) / 2$

4  $s = \sqrt{p(p-a)(p-b)(p-c)}$

5  $W = 2 * \sqrt{b * c * p * (p-a) / (b + c)}$

6  $R = a * b * c / (4 * s)$

7 Вывод  $W, R$

8 Конец

Можно  
отложить  
число

в 1

А



№ 10 p 13.

1  
(Начало)

Ввод  $x, y$

3  
 $z = x$   
 $x = y$   
 $y = z$

Вывод  $x, y$

5  
(Конец)

№ 4 p 13.

сторона  $\Delta$

$$b = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

полупериметр

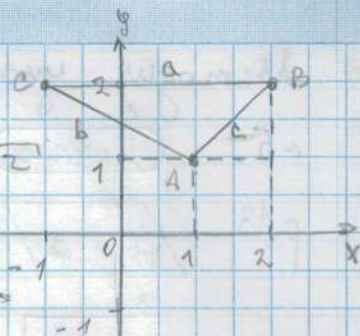
$$p = \frac{a + b + c}{2} = \frac{3 + \sqrt{5} + \sqrt{2}}{2}$$

$$\approx 3,32514$$

$$S = \sqrt{p(p-a)(p-b)(p-c)}$$

$$*(p-c) = 1,5$$

Формула Герона



$$c = \sqrt{(2-1)^2 + (2-1)^2}$$

$$= \sqrt{2} = 1,41421$$

$$a = \sqrt{(2+1)^2 + (2-2)^2}$$

$$= 3$$

$$b = \sqrt{(-1-1)^2 + (2-1)^2}$$

$$= \sqrt{5} = 2,23607$$

№ 2

xc, yc.  
Ввод  $x_A, y_A, x_B, y_B$

2  
 $A(1, 1), B(2, 2), C(-1, 2)$

$$c = \sqrt{(x_B - x_A)^2 + (y_B - y_A)^2}$$

$$a = \sqrt{(x_C - x_B)^2 + (y_C - y_B)^2}$$

$$b = \sqrt{(x_A - x_C)^2 + (y_A - y_C)^2}$$

$$p = (a + b + c) / 2$$

$$s = \sqrt{p * (p-a) * (p-b) * (p-c)}$$

$$W = 2 * \sqrt{b * c * p * (p-a)} / (b + c)$$

$$R = a * b * c / (4 * s)$$

Вывод  $W, R$

Конец

Можно  
опреде-  
лить

б 1



А



Ⓐ ← requirements

~ 12 p 13.

1  
(HAYANO)

2  
/ ~~Maybe~~ hours, minutes, seconds, work\_time /

3  
total\_time = hours \* 3600 + minutes \* 60 + seconds +  
+ work\_time

remaining\_hours = total\_time / 60

total\_time % 60

remaining\_minutes = total\_time / 60

remaining\_seconds = total\_time % 60

4  
/ ~~Maybe~~ remaining\_hours, remaining\_minutes,  
remaining\_seconds /

5  
(KOLUY)

~ 1.3 p 12

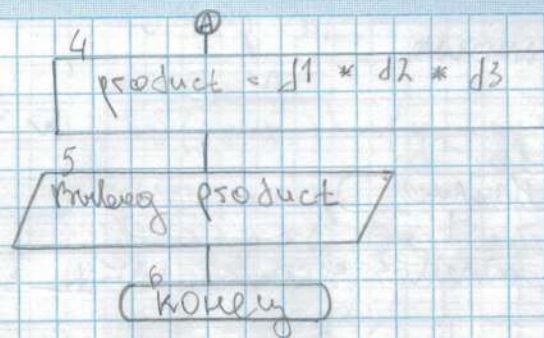
1  
(HAYANO)

2  
/ ~~Maybe~~ num /

3  
d1 = num / 100  
d2 = (num / 10) % 10  
d3 = num % 10

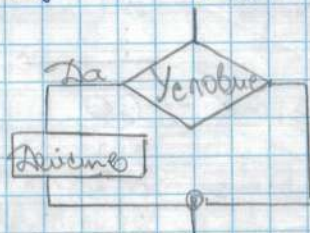
Ⓐ



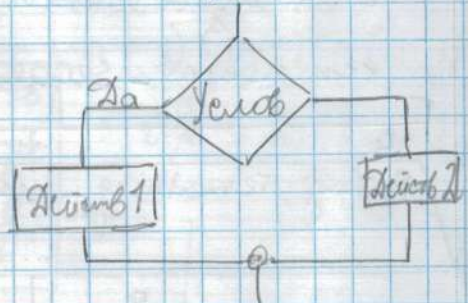


22.09.23

if (yes) give me;



if (yes?) give me 1;  
else give me 2.



int n;

cout << "Begin n: ";

cin >> n;

if (n % 4 == 0 && n % 10 != 0) {  
    cout << "Кратно четырем";

else {

    cout << "Не кратно четырем";

};