



Вариант № 3

1. $\bar{X} \wedge (X \vee \bar{Z})$ (2)

$$(\bar{X} \wedge X) \vee (\bar{X} \wedge \bar{Z}) \quad (\bar{X} \wedge X) \vee (\bar{X} \wedge \bar{Z})$$

$$1 \vee (X \vee \bar{Z}) \quad 1 \vee (\bar{X} \wedge \bar{Z})$$

1) $\bar{X} \wedge \bar{Z}$ (+)

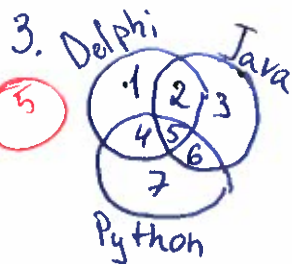
2) $(X \vee \bar{Z})$ (+)

3) $(X \vee \bar{Z})$ —

2. Да, мож. (3)

$$\frac{2 \cdot 60 \cdot 16 \cdot 1000 \cdot 1000 + 1920 \cdot 1080 \cdot 5 \cdot 48}{1024 \cdot 1024 \cdot 1024 \cdot 8} = \frac{(2 \cdot 10000 + 192 \cdot 108 \cdot 5) 60 \cdot 16 \cdot 3 \cdot 100 \cdot 5}{1024 \cdot 1024 \cdot 1024 \cdot 8}$$

$$= \frac{24736 \cdot 60 \cdot 16 \cdot 3 \cdot 100 \cdot 5}{1024 \cdot 1024 \cdot 1024 \cdot 8} = \frac{773 \cdot 15 \cdot 3 \cdot 25 \cdot 5}{1024 \cdot 1024} = \frac{4348125}{1048576} = 4,143(58) \text{ —}$$



$$1+2+4+5=150$$

$$2+3+5+6=160$$

$$4+5+6+7=170$$

$$1+2+3+4+5+6=180$$

$$1+2+4+5+6+7=200$$

$$4+5+6=130$$

$$2+5+6=?$$

$$7 = (4+5+6+7) - (4+5+6) = 170 - 130 = 40$$

$$1+2 = (1+2+4+5+6+7) - (4+5+6+7) = 200 - 170 = 30$$

$$4+5 = (1+2+4+5) - (1+2) = 150 - 30 = 120$$

$$6 = (4+5+6) - (4+5) = 130 - 120 = 10$$

$$3 = (1+2+3+4+5+6) - (4+5+6) - (1+2) = 180 - 130 - 30 = 20$$

$$2+5 = (2+3+5+6) - 3 - 6 = 160 - 20 - 10 = 130$$

$$2+5+6 = 130 + 10 = 140 \text{ (+)}$$

5. $\frac{1 \dots 9}{9} \quad \frac{10 \dots 99}{90} \quad \frac{100 \dots 999}{900}$

$$\frac{1000 \dots 1023}{24}$$

$$9+90+900+24=1023$$

$$\frac{1023}{16} \approx 64 \text{ —}$$



9. Const N:=16;

Var

S: string;

m, l, k, i: integer;

begin

readln(s);

k:=10;

for i:=1 to N do begin

if S[i]='O' then

if S[i+1]='A' then

if S[i+2]='U' then

if S[i+3]='H' then k:=1;

if S[i]='A' then begin

if S[i+1]='B' then

if S[i+2]='A' then k:=2;

if S[i+1]='E' then

if S[i+2]='B' then

if S[i+3]='R' then

if S[i+4]='T' then

if S[i+5]='B' then k:=9;

end;

if S[i]='T' then

if S[i+1]='P' then

if S[i+2]='U' then k:=3;

if S[i]='Y' then

if S[i+1]='E' then

if S[i+2]='T' then

if S[i+3]='D' then

if S[i+4]='P' then

if S[i+5]='E' then k:=4;

if S[i]='P' then

if S[i+1]='R' then

if S[i+2]='T' then

if S[i+3]='B' then k:=5;

if S[i]='W' then

if S[i+1]='E' then

if S[i+2]='C' then

if S[i+3]='T' then

if S[i+4]='B' then k:=6;

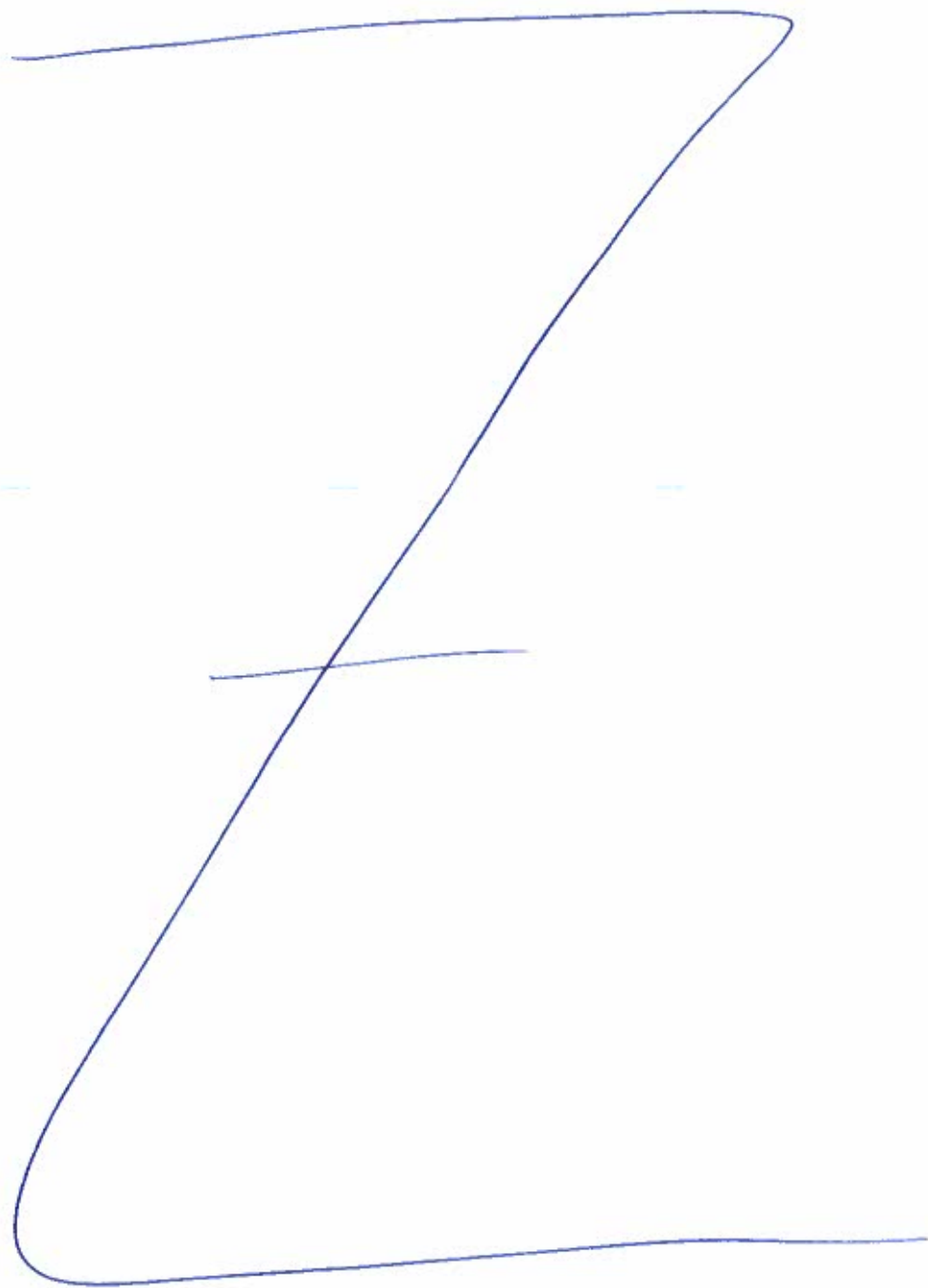


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if S[i] = 'C' then
  if S[i+1] = 'E' then
    if S[i+2] = 'M' then
      if S[i+3] = 'B' then k := 7;
    if S[i] = 'B' then
      if S[i+1] = 'O' then
        if S[i+2] = 'C' then
          if S[i+3] = 'E' then
            if S[i+4] = 'M' then
              if S[i+5] = 'B' then k := 8;
        if S[i] = 'H' then
          if S[i+1] = 'O' then
            if S[i+2] = 'N' then
              if S[i+3] = 'B' then k := 0;
    if k <> 10 then l := i;
  end;
  if k = 1 then delete(S, l, 4);
  if k = 2 then delete(S, l, 3);
  if k = 3 then delete(S, l, 3);
  if k = 4 then delete(S, l, 6);
  if k = 5 then delete(S, l, 4);
  if k = 6 then delete(S, l, 5);
  if k = 7 then delete(S, l, 4);
  if k = 8 then delete(S, l, 6);
  if k = 9 then delete(S, l, 6);
  if k = 0 then delete(S, l, 4);
  m := length(S);
  for i := 1 to m do writeln('Удалено', S[i]);
  writeln('')
  if k <> 10 then begin
    for i := 1 to m do writeln('Удалено', S[i]);
    writeln(k);
  end;
else writeln('Не удалось');
```

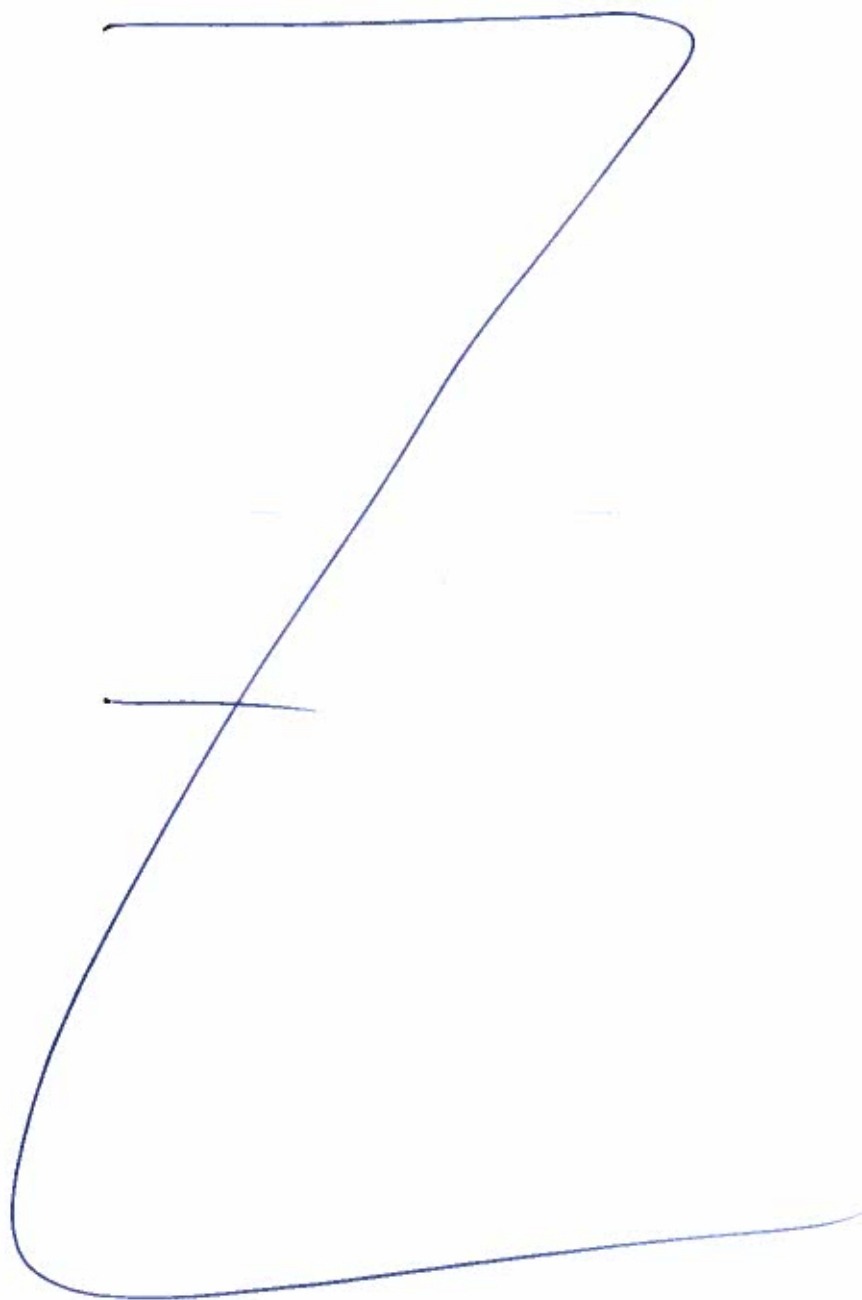


Олимпиада школьников «Гранит науки»
БЛАНК ОЛИМПИАДНОЙ РАБОТЫ





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