```
Exercise 1
Engance I Haimu h: h \leq k < (h+1)^2, use k = 36207
   h = (36207 + \frac{36207}{36207})/2 = \frac{36207 + 1}{2} = 18104
  h = (18104 + \frac{36207}{18104})/2 = \frac{18104+1}{2} = 9052
  h = (9052 + \frac{36207}{9052})/2 = \frac{9052 + 3}{2} = 4527
  h=(4527+ 36207)/2 = 4527+7 = 2267
  h = (2267 + 36207)/2 = 2267 + 15 = 1441
  h = (1141 + 36207) /2 = 1141 + 31 = 586
  h = (586 + \frac{36207}{586})/2 = \frac{586 + 61}{2} = 323
  h = (323 + \frac{36207}{323})/2 = \frac{323 + 112}{2} = 212
  h=(217+ 36207)/2 = 217+ 166 = 191
   h=(191 + 36207)/2 = 191 + 189 = 190
  h = (190 + \frac{36207}{190}) = \frac{190 + 190}{2} = (190)
   Onben h = 190
 Pagarue 2 Parmopuzobamo meno C= 2002
  VC' ~ 44; navigent bel repoeron mena se explorizarensule VC' u bornicului ocraruce or quience e na navigensure meno.
2001 = 2.1001
                                   2002 = 19.105+7
                                   2002 = 23 . 87 +1
2002 = 3 667 + 1
                                   2002 = 29.69+1
2002 = 5.400 +2
2002 = 7.286
                                   2002 = 31.64 + 18
                                   2002 = 37.54+4
2002 = 11.182
                                   2002 = 41 48 + 34
2002 = 13. 154
                                   2002 = 43.46 + 24
2002 = 17 - 117+13
In o, garrior mono c nayeno genumer ha encua 2,7,11,13 =>
  => 2002 = 2.7.11.13
```

Ombem 2002 = 2.7.11.13

```
эадание 3 Решить диорантово уравнение ах-ву=С
    57x +654 = 2002
1) 402 (5765) = 1=1
                                65=57.1+8
                                57=87+(1)
                               8=18
2) 57x0 + 65y0 =1
  20 = -8
  yo = 7
3) 57x1 +65y1 = 2002
    21 - 20 · d = (-8) · 2002 = - 16016
   J1 = yo = = 7-2002 = 14014
4) Osugueir beig pencerulus: \int R = x_1 + \frac{6}{3}k = -16016 + 65k

y = y_1 = \frac{a}{3}k = 14014 - 57k
                                                               Kez
  Ombem { x = -16016+65k
 y = 14014-57k, ke Z
                                       3x + 344 = 1133 (6 5 CC)
  Bagarule 4 Penulino ypabnerille
 1 cnocoo 3x +344= 11335
                                       à chocoo
     3x = 11335 - 3445
                                          3x + 344 = 11335
     3x = 234=
                                          3=3
                                          3445 = 3.25 + 4.5 + 4 = 99
      X = 43_{5}
                                          11335 = 125+25+3.5+3 = 168
               2343
 1133
                                          3x +99 = 168
  3445
                                          3x = 168 - 99
                                          3x = 69
 Ombem. x=43,
                                          2 = 23 = 435
                                            Ombern: x = 435
```