

004.056+511.176

...

V_k^-

$V_k >$

V_k^-

[6]

V_k^{+-}

U_k

[1]

V_k^{+-}

RSA [2]

[3].

[6]

V_k

$V_k >$

[4]

[6]

U_k^-

1

2.

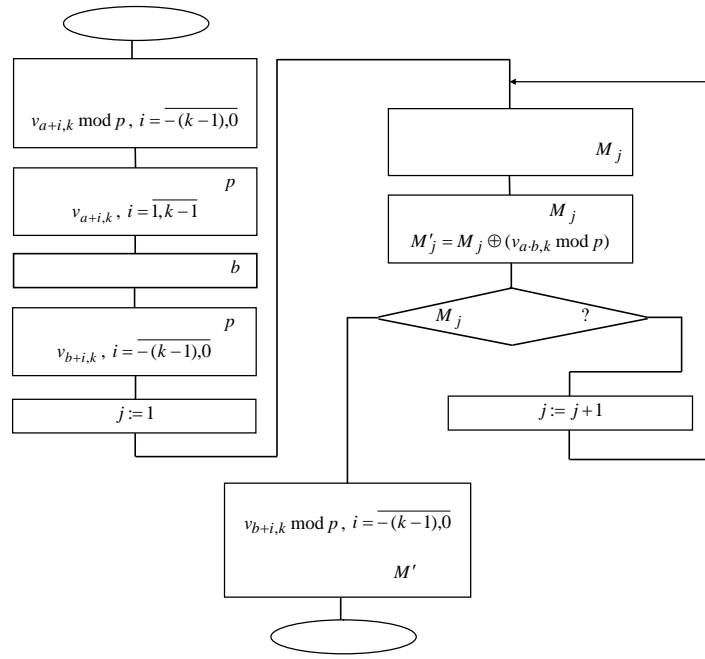
[5]

[4]

$M,$

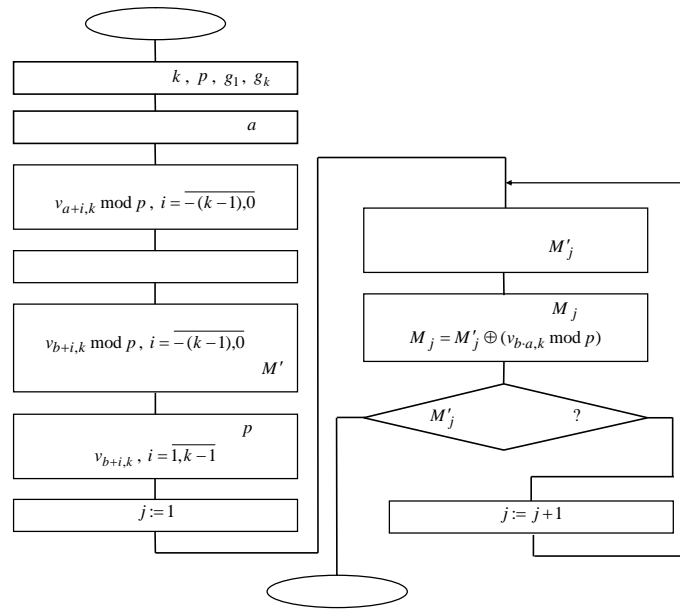
$M_j,$

$p.$



. 1.

V_k-



. 2.

V_k-

```

    p
    ;
    G K
    Vk-
    ;
    1024, 2048 4096
    P;
    ModInverse,
    P
    G;
    k
    gi,
    G;
    vkList,
    i = 1, k .
    gi, i = 1, k ,
    p
    ;
    gi, i = 1, k ,
    [1, p].
    ;
    /
    gi, i = 1, k ,
    InitParams,
    /
    a b .
    n-
    CalcVk
    n-
    Vk-
    [6]
    ;
    CalcVkReverse
    n-
    Vk-
    ;
    CalcSet
    ;
    CalcQuickSetPlus
    ;
    Visual Studio 2013.
    VeryQuickCalcPlus,
    n-
    Vk-
    ;
    Module,
    ;
    CalcQuickSetPlus;
    CalcNPlusM
    Vk-
    n+m;
    QuickCalcPlus -

```

```

    V_k - n*m;
    ToSerizable Encrypt;

    V_k ( 2- ) :
    Decrypt,

    IProtocol,
    Side Sides,
    A, B, TrustedCenter,
    TrustedCenter [4, 6] V_k U_k -
    A B,
    null;
    Initialize, _vka _vkb
    A- B-
    A+B,
    2,
    B A,
    2
    V_k - U_k U_k -
    IProtocol,
    [6]
    V_k -
    P - ;
    G -
    P;
    Initialize, V_k -
    X K,
    P-1,
    Initialize,

```

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[] / . . . //

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[] / . . . // . – 2013. - 3. - . 123–129.

24.09.2014

V_k -

V_k -

V_k -

FEATURES OF THE DEVELOPMENT OF SOFTWARE TOOLS FOR ASYMMETRIC ENCRYPTION BASED ON RECURRENT V_k -SEQUENCES

I. Iaremchuk

The paper presents the development of algorithms and programs for the implementation of asymmetric encryption information based on V_k -sequences. The main features of the implementation of modules perform cryptographic operations, as well as the implementation of mathematical apparatus module V_k -recurrent sequences for this program provide a special class describes the parameters and operation of this class.

Keywords: information security, cryptography, asymmetric encryption, recurrent sequences, software means.