

Простые числа

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//массивы ни при чем

```
void test_na_prosototu(int number)
```

```
{  
  
}
```

```
void razlogenie_na_mnogiteli(int number)
```

```
{  
  
}
```

```
int factorization(long long int impostor_or_crewmate)
```

```
{  
    int flag;  
    double g;  
    flag=0;  
    g=sqrt(impostor_or_crewmate);  
    long long int i=2;  
    while(i<=g)  
    {  
        if(impostor_or_crewmate%i==0)  
        {  
            g=sqrt(impostor_or_crewmate);  
            printf("%d\n", i);  
            impostor_or_crewmate=impostor_or_crewmate/i;  
            i=i-1;  
        }  
        i++;  
    }  
    printf("%d", impostor_or_crewmate);  
}
```

```
int uprising(long long int impostor_or_crewmate)
```

```
{  
    int flag;  
    double g;  
    g=sqrt(impostor_or_crewmate);  
    flag=0;  
    long long int i=2;  
    while(i<=g && flag==0)  
    {  
        if(impostor_or_crewmate%i==0)  
        {  
            flag=1;  
            break;  
        }  
        i++;  
    }  
    if(flag==0)  
    {  
        return 0;  
    }  
    else  
    {  
        return 1;  
    }  
}
```

```
int main()
```

```
{  
    srand(time(NULL));  
    int ms[SIZE];  
    //massive_generator(ms, SIZE);  
    //printmass(ms, SIZE);  
    int result;  
    long long int start=9223372036854775789;  
    while(1)  
    {  
        result=uprising(start);  
        if(result==0)  
        {  
            printf("%lld\n", start);  
            break;  
        }  
        else  
        {  
            start=start-1;  
        }  
    }  
}
```

```
int uprising(long long int impostor_or_crewmate)
```

```
{  
    int flag;  
    double g;  
    g=sqrt(impostor_or_crewmate);  
    flag=0;  
    long long int i=2;  
    while(i<=g && flag==0)  
    {  
        if(impostor_or_crewmate%i==0)  
        {  
            flag=1;  
            break;  
        }  
        i++;  
    }  
    if(flag==0)  
    {  
        return 0;  
    }  
    else  
    {  
        return 1;  
    }  
}
```