# Aerobus

v1.2

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# **Chapter 1**

# **Concept Index**

## 1.1 Concepts

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# **Chapter 2**

# **Class Index**

### 2.1 Class List

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# **Chapter 4**

# **Concept Documentation**

### 4.1 aerobus::IsEuclideanDomain Concept Reference

Concept to express R is an euclidean domain.

```
#include <aerobus.h>
```

### 4.1.1 Concept definition

```
template<typename R>
concept aerobus::IsEuclideanDomain = IsRing<R> && requires {
            typename R::template div_t<typename R::one, typename R::one>;
            typename R::template mod_t<typename R::one, typename R::one>;
            typename R::template gcd_t<typename R::one, typename R::one>;
            typename R::template eq_t<typename R::one, typename R::one>;
            typename R::template pos_t<typename R::one>;
            R::template pos_t<typename R::one> == true;
            R::is_euclidean_domain == true;
}
```

### 4.1.2 Detailed Description

Concept to express R is an euclidean domain.

## 4.2 aerobus::IsField Concept Reference

Concept to express R is a field.

```
#include <aerobus.h>
```

### 4.2.1 Concept definition

```
template<typename R>
concept aerobus::IsField = IsEuclideanDomain<R> && requires {
          R::is_field == true;
}
```

### 4.2.2 Detailed Description

Concept to express R is a field.

### 4.3 aerobus::IsRing Concept Reference

Concept to express R is a Ring (ordered)

```
#include <aerobus.h>
```

### 4.3.1 Concept definition

```
template < typename R>
concept aerobus::IsRing = requires {
    typename R::one;
    typename R:zero;
    typename R::template add_t < typename R::one, typename R::one>;
    typename R::template sub_t < typename R::one, typename R::one>;
    typename R::template mul_t < typename R::one, typename R::one>;
}
```

### 4.3.2 Detailed Description

Concept to express R is a Ring (ordered)

## **Chapter 5**

# **Class Documentation**

5.1 aerobus::polynomial< Ring, variable\_name >::val< coeffN >::coeff\_at< index, E > Struct Template Reference

The documentation for this struct was generated from the following file:

- · src/aerobus.h
- 5.2 aerobus::polynomial< Ring, variable\_name >::val< coeffN >::coeff\_at< index, std::enable\_if\_t<(index<0||index>0)>> Struct Template Reference

### **Public Types**

• using type = typename Ring::zero

The documentation for this struct was generated from the following file:

- src/aerobus.h
- 5.3 aerobus::polynomial < Ring, variable\_name >::val < coeffN >::coeff\_at < index, std::enable\_if\_t < (index==0) > > Struct Template Reference

### **Public Types**

• using type = aN

The documentation for this struct was generated from the following file:

• src/aerobus.h

### 5.4 aerobus::ContinuedFraction< values > Struct Template Reference

```
represents a continued fraction a0 + 1/(a1 + 1/(...))
#include <aerobus.h>
```

### 5.4.1 Detailed Description

```
template < int64_t... values > struct aerobus::ContinuedFraction < values > represents a continued fraction a0 + 1/(a1 + 1/(...)) Template Parameters
```

...values are aerobus::i64

The documentation for this struct was generated from the following file:

· src/aerobus.h

### 5.5 aerobus::ContinuedFraction < a0 > Struct Template Reference

Specialization for only one coefficient, technically just 'a0'.

```
#include <aerobus.h>
```

### **Public Types**

using type = typename q64::template inject\_constant\_t< a0 >

#### **Static Public Attributes**

• static constexpr double **val** = type::template get<double>()

### 5.5.1 Detailed Description

```
template<int64_t a0> struct aerobus::ContinuedFraction< a0 >
```

Specialization for only one coefficient, technically just 'a0'.

### **Template Parameters**

```
a0 an integer (aerobus::i64)
```

The documentation for this struct was generated from the following file:

· src/aerobus.h

# 5.6 aerobus::ContinuedFraction< a0, rest... > Struct Template Reference

specialization for multiple coefficients (strictly more than one)

```
#include <aerobus.h>
```

### **Public Types**

• using **type** = q64::template add\_t< typename q64::template inject\_constant\_t< a0 >, typename q64
::template div\_t< typename q64::one, typename ContinuedFraction< rest... >::type > >

### **Static Public Attributes**

• static constexpr double val = type::template get<double>()

### 5.6.1 Detailed Description

```
template<int64_t a0, int64_t... rest> struct aerobus::ContinuedFraction< a0, rest... >
```

specialization for multiple coefficients (strictly more than one)

### **Template Parameters**

a0	an integer (aerobus::i64)
rest	integers (aerobus::i64)

The documentation for this struct was generated from the following file:

src/aerobus.h

### 5.7 aerobus::i32 Struct Reference

32 bits signed integers, seen as a algebraic ring with related operations

```
#include <aerobus.h>
```

### Classes

• struct val values in i32, again represented as types

### **Public Types**

```
• using inner_type = int32 t
• using zero = val< 0 >
     constant zero
• using one = val< 1 >
     constant one
• template<auto x>
  using inject_constant_t = val< static_cast< int32_t >(x)>
• template<typename v >
  using inject_ring_t = v
• template<typename v1 , typename v2 >
  using add_t = typename add< v1, v2 >::type
     addition operator
• template<typename v1 , typename v2 >
  using sub_t = typename sub < v1, v2 >::type
     substraction operator
• template<typename v1 , typename v2 >
  using mul_t = typename mul < v1, v2 >::type
     multiplication operator
• template<typename v1 , typename v2 >
  using div_t = typename div < v1, v2 >::type
     division operator
• template<typename v1 , typename v2 >
  using mod_t = typename remainder < v1, v2 >::type
     modulus operator
• template<typename v1 , typename v2 >
  using gt_t = typename gt < v1, v2 >::type
     strictly greater operator (v1 > v2)
• template<typename v1 , typename v2 >
  using It_t = typename It < v1, v2 >::type
     strict less operator (v1 < v2)
• template<typename v1 , typename v2 >
  using eq_t = typename eq< v1, v2 >::type
     equality operator (type)

    template<typename v1 , typename v2 >

  using gcd_t = gcd_t < i32, v1, v2 >
     greatest common divisor
• template<typename v >
  using pos_t = typename pos< v >::type
     positivity (type)(v > 0)
```

### **Static Public Attributes**

```
• static constexpr bool is_field = false
```

integers are not a field

• static constexpr bool is\_euclidean\_domain = true

integers are an euclidean domain

template<typename v1, typename v2 >
 static constexpr bool eq\_v = eq\_t<v1, v2>::value
 equality operator (boolean value)

template<typename v >
 static constexpr bool pos\_v = pos\_t<v>::value
 positivity (boolean value)

### 5.7.1 Detailed Description

32 bits signed integers, seen as a algebraic ring with related operations

### 5.7.2 Member Data Documentation

### 5.7.2.1 eq v

```
template<typename v1 , typename v2 >
constexpr bool aerobus::i32::eq_v = eq_t<v1, v2>::value [static], [constexpr]
```

equality operator (boolean value)

**Template Parameters** 

v1	
v2	

### 5.7.2.2 pos\_v

```
template<typename v >
constexpr bool aerobus::i32::pos_v = pos_t < v > ::value [static], [constexpr]
```

positivity (boolean value)

**Template Parameters** 



The documentation for this struct was generated from the following file:

• src/aerobus.h

### 5.8 aerobus::i64 Struct Reference

64 bits signed integers, seen as a algebraic ring with related operations

```
#include <aerobus.h>
```

#### Classes

• struct val values in i64

### **Public Types**

```
• using inner_type = int64_t

    template<auto x>

  using inject_constant_t = val< static_cast< int64_t >(x)>
• template<typename v >
  using inject_ring_t = v

    using zero = val < 0 >

     constant zero
• using one = val< 1 >
     constant one
• template<typename v1 , typename v2 >
  using add_t = typename add< v1, v2 >::type
     addition operator
• template<typename v1 , typename v2 >
  using sub_t = typename sub< v1, v2 >::type
     substraction operator
• template<typename v1 , typename v2 >
  using mul_t = typename mul < v1, v2 >::type
     multiplication operator

    template<typename v1 , typename v2 >

  using div_t = typename div < v1, v2 >::type
     division operator
• template<typename v1 , typename v2 >
  using mod_t = typename remainder < v1, v2 >::type
     modulus operator
• template<typename v1 , typename v2 >
  using gt_t = typename gt < v1, v2 >::type
     strictly greater operator (v1 > v2) - type
• template<typename v1 , typename v2 >
  using It_t = typename It< v1, v2 >::type
     strict less operator (v1 < v2)
• template<typename v1 , typename v2 >
  using eq_t = typename eq< v1, v2 >::type
     equality operator (type)
• template<typename v1 , typename v2 >
  using gcd_t = gcd_t < i64, v1, v2 >
     greatest common divisor
• template<typename v >
  using pos_t = typename pos< v >::type
     is v posititive (type)
```

### **Static Public Attributes**

```
    static constexpr bool is_field = false
        integers are not a field
    static constexpr bool is_euclidean_domain = true
        integers are an euclidean domain
    template<typename v1 , typename v2 >
        static constexpr bool gt_v = gt_t<v1, v2>::value
            strictly greater operator (v1 > v2) - boolean value
    template<typename v1 , typename v2 >
        static constexpr bool It_v = It_t<v1, v2>::value
            strictly smaller operator (v1 < v2) - boolean value</li>
    template<typename v1 , typename v2 >

    template<typename v1 , typename v2 >
```

template < typename v >
 static constexpr bool pos\_v = pos\_t < v > ::value
 positivity (boolean value)

### 5.8.1 Detailed Description

64 bits signed integers, seen as a algebraic ring with related operations

### 5.8.2 Member Typedef Documentation

### 5.8.2.1 add\_t

```
template<typename v1 , typename v2 >
using aerobus::i64::add_t = typename add<v1, v2>::type
```

### addition operator

### **Template Parameters**

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.2.2 div\_t

```
template<typename v1 , typename v2 >
using aerobus::i64::div_t = typename div<v1, v2>::type
```

### division operator

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.2.3 eq\_t

```
template<typename v1 , typename v2 >
using aerobus::i64::eq_t = typename eq<v1, v2>::type
```

### equality operator (type)

### **Template Parameters**

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.2.4 gcd\_t

```
template<typename v1 , typename v2 >
using aerobus::i64::gcd_t = gcd_t<i64, v1, v2>
```

### greatest common divisor

### **Template Parameters**

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.2.5 gt\_t

```
template<typename v1 , typename v2 >
using aerobus::i64::gt_t = typename gt<v1, v2>::type
```

strictly greater operator (v1 > v2) - type

### **Template Parameters**

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.2.6 lt\_t

```
template<typename v1 , typename v2 >
using aerobus::i64::lt_t = typename lt<v1, v2>::type
```

strict less operator (v1 < v2)

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.2.7 mod\_t

```
template<typename v1 , typename v2 >
using aerobus::i64::mod_t = typename remainder<v1, v2>::type
```

modulus operator

### **Template Parameters**

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.2.8 mul\_t

```
template<typename v1 , typename v2 >
using aerobus::i64::mul_t = typename mul<v1, v2>::type
```

multiplication operator

### **Template Parameters**

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.2.9 pos\_t

```
template<typename v >
using aerobus::i64::pos_t = typename pos<v>::type
```

is v posititive (type)

### **Template Parameters**

```
v1 : an element of aerobus::i64::val
```

### 5.8.2.10 sub\_t

```
template<typename v1 , typename v2 >
using aerobus::i64::sub_t = typename sub<v1, v2>::type
```

substraction operator

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.3 Member Data Documentation

### 5.8.3.1 eq\_v

```
\label{eq:constexpr} \begin{tabular}{ll} template < typename & v1 & typename & v2 & \\ constexpr & bool & aerobus::i64::eq_v & = eq_t < v1, & v2 > ::value & [static], & [constexpr] & (static) & (st
```

equality operator (boolean value)

### **Template Parameters**

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.3.2 gt\_v

```
template<typename v1 , typename v2 > constexpr bool aerobus::i64::gt_v = gt_t<v1, v2>::value [static], [constexpr]
```

strictly greater operator (v1 > v2) - boolean value

### **Template Parameters**

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.3.3 lt\_v

```
\label{template} $$ \ensuremath{\sf typename}$ v1 , typename v2 > $$ constexpr bool aerobus::i64::lt_v = lt_t < v1, v2>::value [static], [constexpr] $$
```

strictly smaller operator (v1 < v2) - boolean value

### **Template Parameters**

v1	: an element of aerobus::i64::val
v2	: an element of aerobus::i64::val

### 5.8.3.4 pos\_v

```
template<typename v >
constexpr bool aerobus::i64::pos_v = pos_t < v > ::value [static], [constexpr]
```

positivity (boolean value)

**Template Parameters** 

v : an element of aerobus::i64::val

The documentation for this struct was generated from the following file:

· src/aerobus.h

# 5.9 aerobus::polynomial< Ring, variable\_name >::horner\_evaluation< valueRing, P >::inner< index, stop > Struct Template Reference

#### **Static Public Member Functions**

• static constexpr valueRing func (const valueRing &accum, const valueRing &x)

The documentation for this struct was generated from the following file:

· src/aerobus.h

# 5.10 aerobus::polynomial< Ring, variable\_name >::horner\_evaluation< valueRing, P >::inner< stop, stop > Struct Template Reference

### **Static Public Member Functions**

• static constexpr valueRing func (const valueRing &accum, const valueRing &x)

The documentation for this struct was generated from the following file:

· src/aerobus.h

## 5.11 aerobus::is prime< n > Struct Template Reference

checks if n is prime

#include <aerobus.h>

### **Static Public Attributes**

### 5.11.1 Detailed Description

template<int32\_t n> struct aerobus::is\_prime< n >

checks if n is prime

### **Template Parameters**

```
n
```

The documentation for this struct was generated from the following file:

· src/aerobus.h

# 5.12 aerobus::polynomial< Ring, variable\_name > Struct Template Reference

```
#include <aerobus.h>
```

### Classes

```
    struct val
        values (seen as types) in polynomial ring
        struct val < coeffN >
```

specialization for constants

### **Public Types**

```
• using zero = val< typename Ring::zero >
     constant zero
• using one = val< typename Ring::one >
     constant one

    using X = val< typename Ring::one, typename Ring::zero >

     generator
• template<typename P >
  using simplify_t = typename simplify< P >::type
     simplifies a polynomial (recursively deletes highest degree if zero, do nothing otherwise)
• template<typename v1 , typename v2 >
  using add_t = typename add< v1, v2 >::type
     adds two polynomials
• template<typename v1 , typename v2 >
  using sub_t = typename sub< v1, v2 >::type
     substraction of two polynomials

    template<typename v1 , typename v2 >

  using mul_t = typename mul < v1, v2 >::type
     multiplication of two polynomials
• template<typename v1 , typename v2 >
  using eq_t = typename eq_helper< v1, v2 >::type
     equality operator
• template<typename v1 , typename v2 >
  using lt_t = typename lt_helper< v1, v2 >::type
     strict less operator
• template<typename v1 , typename v2 >
  using gt_t = typename gt_helper< v1, v2 >::type
```

```
strict greater operator
• template<typename v1 , typename v2 >
  using div_t = typename div < v1, v2 >::q_type
     division operator
• template<typename v1 , typename v2 >
  using mod_t = typename div_helper< v1, v2, zero, v1 >::mod_type
     modulo operator
• template<typename coeff , size_t deg>
  using monomial t = typename monomial < coeff, deg >::type
     monomial : coeff X^{\wedge} deg
• template<typename v >
  using derive t = typename derive helper< v >::type
     derivation operator

    template<typename v >

  using pos_t = typename Ring::template pos_t < typename v::aN >
     checks for positivity (an > 0)
• template<typename v1 , typename v2 >
  using gcd_t = std::conditional_t < Ring::is_euclidean_domain, typename make_unit < gcd_t < polynomial <
  Ring, variable_name >, v1, v2 > >::type, void >
     greatest common divisor of two polynomials

    template<auto x>

  using inject_constant_t = val< typename Ring::template inject_constant_t < x > >

    template<typename v >

  using inject_ring_t = val< v >
```

#### **Static Public Attributes**

- static constexpr bool is\_field = false
- static constexpr bool is\_euclidean\_domain = Ring::is\_euclidean\_domain
- template<typename v >
   static constexpr bool pos\_v = pos\_t<v>::value

### 5.12.1 Detailed Description

```
template<typename Ring, char variable_name = 'x'>
requires lsEuclideanDomain<Ring>
struct aerobus::polynomial< Ring, variable_name >
```

polynomial with coefficients in Ring Ring must be an integral domain

### 5.12.2 Member Typedef Documentation

### 5.12.2.1 add t

```
template<typename Ring , char variable_name = 'x'>
template<typename v1 , typename v2 >
using aerobus::polynomial< Ring, variable_name >::add_t = typename add<v1, v2>::type
adds two polynomials
```

### **Template Parameters**

v1	
v2	

### 5.12.2.2 derive t

```
template<typename Ring , char variable_name = 'x'>
template<typename v >
using aerobus::polynomial< Ring, variable_name >::derive_t = typename derive_helper<v>::type
```

### derivation operator

### **Template Parameters**



### 5.12.2.3 div\_t

```
template<typename Ring , char variable_name = 'x'>
template<typename v1 , typename v2 >
using aerobus::polynomial< Ring, variable_name >::div_t = typename div<v1, v2>::q_type
```

### division operator

### **Template Parameters**

v1	
v2	

### 5.12.2.4 eq t

```
template<typename Ring , char variable_name = 'x'>
template<typename v1 , typename v2 >
using aerobus::polynomial< Ring, variable_name >::eq_t = typename eq_helper<v1, v2>::type
```

### equality operator

### **Template Parameters**

v1	
v2	

### 5.12.2.5 gcd\_t

template<typename Ring , char variable\_name = 'x'>

greatest common divisor of two polynomials

### **Template Parameters**

v1	
v2	

### 5.12.2.6 gt\_t

```
template<typename Ring , char variable_name = 'x'>
template<typename v1 , typename v2 >
using aerobus::polynomial< Ring, variable_name >::gt_t = typename gt_helper<v1, v2>::type
```

### strict greater operator

### **Template Parameters**

v1	
v2	

### 5.12.2.7 lt\_t

```
template<typename Ring , char variable_name = 'x'>
template<typename v1 , typename v2 >
using aerobus::polynomial< Ring, variable_name >::lt_t = typename lt_helper<v1, v2>::type
```

### strict less operator

### **Template Parameters**

v1	
v2	

### 5.12.2.8 mod\_t

```
template<typename Ring , char variable_name = 'x'>
template<typename v1 , typename v2 >
using aerobus::polynomial< Ring, variable_name >::mod_t = typename div_helper<v1, v2, zero,
v1>::mod_type
```

### modulo operator

### **Template Parameters**

v1	
v2	

### 5.12.2.9 monomial t

```
template<typename Ring , char variable_name = 'x'>
template<typename coeff , size_t deg>
using aerobus::polynomial< Ring, variable_name >::monomial_t = typename monomial<coeff, deg>
::type
```

monomial : coeff X^deg

### **Template Parameters**

coeff	
deg	

### 5.12.2.10 mul\_t

```
template<typename Ring , char variable_name = 'x'>
template<typename v1 , typename v2 >
using aerobus::polynomial< Ring, variable_name >::mul_t = typename mul<v1, v2>::type
```

multiplication of two polynomials

### **Template Parameters**

v1	
v2	

### 5.12.2.11 pos\_t

checks for positivity (an > 0)

### 5.12.2.12 simplify\_t

```
template<typename Ring , char variable_name = 'x'>
template<typename P >
using aerobus::polynomial< Ring, variable_name >::simplify_t = typename simplify<P>::type
```

simplifies a polynomial (recursively deletes highest degree if zero, do nothing otherwise)

#### **Template Parameters**



### 5.12.2.13 sub\_t

```
template<typename Ring , char variable_name = 'x'>
template<typename v1 , typename v2 >
using aerobus::polynomial< Ring, variable_name >::sub_t = typename sub<v1, v2>::type
```

substraction of two polynomials

### **Template Parameters**

v1	
v2	

The documentation for this struct was generated from the following file:

· src/aerobus.h

## 5.13 aerobus::type\_list< Ts >::pop\_front Struct Reference

removes types from head of the list

```
#include <aerobus.h>
```

### **Public Types**

- using type = typename internal::pop\_front\_h< Ts... >::head
   type that was previously head of the list
- using **tail** = typename internal::pop\_front\_h< Ts... >::tail remaining types in parent list when front is removed

### 5.13.1 Detailed Description

```
template<typename... Ts> struct aerobus::type_list< Ts >::pop_front
```

removes types from head of the list

The documentation for this struct was generated from the following file:

• src/aerobus.h

### 5.14 aerobus::Quotient < Ring, X > Struct Template Reference

#### **Classes**

struct val

### **Public Types**

```
• using zero = val< typename Ring::zero >
using one = val< typename Ring::one >
• template<typename v1, typename v2 >
  using add_t = val< typename Ring::template add_t< typename v1::type, typename v2::type >>
• template<typename v1 , typename v2 >
 using mul_t = val< typename Ring::template mul_t< typename v1::type, typename v2::type > >

    template<typename v1, typename v2 >

  using div_t = val< typename Ring::template div_t< typename v1::type, typename v2::type >>
• template<typename v1 , typename v2 >
  using mod_t = val< typename Ring::template mod_t< typename v1::type, typename v2::type >>

    template<typename v1 , typename v2 >

  using eq_t = typename Ring::template eq_t < typename v1::type, typename v2::type >

    template<typename v1 >

  using pos_t = std::true_type

    template<auto x>

  using inject_constant_t = val< typename Ring::template inject_constant_t < x > >

    template<typename v >

  using inject_ring_t = val< v >
```

### **Static Public Attributes**

```
    template<typename v1, typename v2>
        static constexpr bool eq_v = Ring::template eq_t<typename v1::type, typename v2::type>::value
    template<typename v>
        static constexpr bool pos_v = pos_t<v>::value
    static constexpr bool is_euclidean_domain = true
```

The documentation for this struct was generated from the following file:

· src/aerobus.h

# 5.15 aerobus::type\_list< Ts >::split< index > Struct Template Reference

```
splits list at index
```

```
#include <aerobus.h>
```

### **Public Types**

- using head = typename inner::head
- using tail = typename inner::tail

### 5.15.1 Detailed Description

template<typename... Ts>
template<size\_t index>
struct aerobus::type\_list< Ts >::split< index >

splits list at index

### **Template Parameters**

index	
-------	--

The documentation for this struct was generated from the following file:

· src/aerobus.h

### 5.16 aerobus::type\_list< Ts > Struct Template Reference

Empty pure template struct to handle type list.

```
#include <aerobus.h>
```

### **Classes**

```
· struct pop_front
```

removes types from head of the list

struct split

splits list at index

### **Public Types**

```
template<typename T >
 using push_front = type_list< T, Ts... >
     Adds T to front of the list.
• template<size_t index>
  using at = internal::type_at_t< index, Ts... >
     returns type at index
template<typename T >
 using push_back = type_list< Ts..., T >
     pushes T at the tail of the list
• template<typename U>
  using concat = typename concat_h< U >::type
     concatenates two list into one
• template<typename T , size_t index>
 using insert = typename internal::insert_h< index, type_list< Ts... >, T >::type
     inserts type at index
• template<size_t index>
  using remove = typename internal::remove_h< index, type_list< Ts... > >::type
     removes type at index
```

### **Static Public Attributes**

```
    static constexpr size_t length = sizeof...(Ts)
    length of list
```

### 5.16.1 Detailed Description

```
template<typename... Ts> struct aerobus::type_list< Ts >
```

Empty pure template struct to handle type list.

A list of types.

**Template Parameters** 

Ts	

### 5.16.2 Member Typedef Documentation

### 5.16.2.1 at

```
template<typename... Ts>
template<size_t index>
using aerobus::type_list< Ts >::at = internal::type_at_t<index, Ts...>
```

returns type at index

**Template Parameters** 

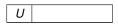


### 5.16.2.2 concat

```
template<typename... Ts>
template<typename U >
using aerobus::type_list< Ts >::concat = typename concat_h<U>::type
```

concatenates two list into one

**Template Parameters** 



### 5.16.2.3 insert

```
template<typename... Ts>
template<typename T , size_t index>
using aerobus::type_list< Ts >::insert = typename internal::insert_h<index, type_list<Ts...>,
T>::type
```

inserts type at index

index	
T	

### 5.16.2.4 push\_back

```
{\tt template}{<}{\tt typename}\dots \quad {\tt Ts}{>}
template<typename T >
using aerobus::type_list< Ts >::push_back = type_list<Ts..., T>
pushes T at the tail of the list
```

### **Template Parameters**



### 5.16.2.5 push\_front

```
template<typename... Ts>
{\tt template}{<}{\tt typename}\ {\tt T}\ >
using aerobus::type_list< Ts >::push_front = type_list<T, Ts...>
```

Adds T to front of the list.

**Template Parameters** 



### 5.16.2.6 remove

```
template<typename... Ts>
template<size_t index>
using aerobus::type_list< Ts >::remove = typename internal::remove_h<index, type_list<Ts...>
>::type
```

removes type at index

**Template Parameters** 



The documentation for this struct was generated from the following file:

· src/aerobus.h

## aerobus::type\_list<> Struct Reference

### **Public Types**

 $\bullet \;\; {\sf template}{<} {\sf typename} \; {\sf T} >$ using **push\_front** = type\_list< T >

```
    template < typename T > using push_back = type_list < T >
    template < typename U > using concat = U
    template < typename T, size_t index > using insert = type_list < T >
```

#### **Static Public Attributes**

• static constexpr size\_t length = 0

The documentation for this struct was generated from the following file:

· src/aerobus.h

# 5.18 aerobus::i32::val < x > Struct Template Reference

```
values in i32, again represented as types
```

```
#include <aerobus.h>
```

# **Public Types**

```
using is_zero_t = std::bool_constant< x==0 >
is value zero
```

#### **Static Public Member Functions**

```
    template < typename valueType > static constexpr valueType get ()
        cast x into valueType
    static std::string to_string ()
        string representation of value
    template < typename valueRing > static constexpr valueRing eval (const valueRing &v)
        cast x into valueRing
```

#### **Static Public Attributes**

static constexpr int32\_t v = x
 actual value stored in val type

# 5.18.1 Detailed Description

```
template<int32_t x>
struct aerobus::i32::val< x>
values in i32, again represented as types
```

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#### **Template Parameters**

```
x an actual integer
```

#### 5.18.2 Member Function Documentation

#### 5.18.2.1 eval()

cast x into valueRing

#### **Template Parameters**

# 5.18.2.2 get()

```
template<iint32_t x>
template<typename valueType >
static constexpr valueType aerobus::i32::val< x >::get ( ) [inline], [static], [constexpr]
```

cast x into valueType

**Template Parameters** 

```
valueType | double for example
```

The documentation for this struct was generated from the following file:

· src/aerobus.h

# 5.19 aerobus::i64::val< x > Struct Template Reference

```
values in i64
```

```
#include <aerobus.h>
```

#### **Public Types**

```
using is_zero_t = std::bool_constant< x==0 >
is value zero
```

#### **Static Public Member Functions**

```
    template < typename valueType > static constexpr valueType get ()
        cast value in valueType
    static std::string to_string ()
        string representation
    template < typename valueRing > static constexpr valueRing eval (const valueRing &v)
        cast value in valueRing
```

#### **Static Public Attributes**

• static constexpr int64\_t v = x

# 5.19.1 Detailed Description

```
template < int64_t x > struct aerobus::i64::val < x > values in i64

Template Parameters

x an actual integer
```

#### 5.19.2 Member Function Documentation

#### 5.19.2.1 eval()

**Template Parameters** 

```
valueRing (double for example)
```

#### 5.19.2.2 get()

```
template<iint64_t x>
template<typename valueType >
static constexpr valueType aerobus::i64::val< x >::get () [inline], [static], [constexpr]
```

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cast value in valueType

**Template Parameters** 

```
valueType (double for example)
```

The documentation for this struct was generated from the following file:

· src/aerobus.h

# 5.20 aerobus::polynomial < Ring, variable\_name >::val < coeffN, coeffs > Struct Template Reference

```
values (seen as types) in polynomial ring
```

#### **Public Types**

• using aN = coeffN

#include <aerobus.h>

heavy weight coefficient (non zero)

• using strip = val< coeffs... >

remove largest coefficient

• using is\_zero\_t = std::bool\_constant<(degree==0) &&(aN::is\_zero\_t::value)>

true\_type if polynomial is constant zero

template<size\_t index>

using coeff\_at\_t = typename coeff\_at< index >::type

type of coefficient at index

#### **Static Public Member Functions**

• static std::string to\_string ()

get a string representation of polynomial

 $\bullet \ \ \text{template}{<} \text{typename valueRing} >$ 

static constexpr valueRing eval (const valueRing &x)

evaluates polynomial seen as a function operating on ValueRing

#### **Static Public Attributes**

```
• static constexpr size_t degree = sizeof...(coeffs)
```

degree of the polynomial

static constexpr bool is\_zero\_v = is\_zero\_t::value

true if polynomial is constant zero

#### 5.20.1 Detailed Description

```
template<typename Ring, char variable_name = 'x'>
template<typename coeffN, typename... coeffs>
struct aerobus::polynomial< Ring, variable_name >::val< coeffN, coeffs >
```

values (seen as types) in polynomial ring

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#### **Template Parameters**

coeffN	high degree coefficient
coeffs	lower degree coefficients

# 5.20.2 Member Typedef Documentation

### 5.20.2.1 coeff\_at\_t

```
template<typename Ring , char variable_name = 'x'>
template<typename coeffN , typename... coeffs>
template<size_t index>
using aerobus::polynomial< Ring, variable_name >::val< coeffN, coeffs >::coeff_at_t = typename
coeff_at<index>::type
```

type of coefficient at index

**Template Parameters** 

index	
-------	--

# 5.20.3 Member Function Documentation

#### 5.20.3.1 eval()

evaluates polynomial seen as a function operating on ValueRing

**Template Parameters** 

valueRing	usually float or double
-----------	-------------------------

#### **Parameters**

x value

Returns

P(x)

#### 5.20.3.2 to\_string()

```
template<typename Ring , char variable_name = 'x'>
template<typename coeffN , typename... coeffs>
static std::string aerobus::polynomial< Ring, variable_name >::val< coeffN, coeffs >::to_
string ( ) [inline], [static]
```

get a string representation of polynomial

#### Returns

```
something like a_n X^n + ... + a_1 X + a_0
```

The documentation for this struct was generated from the following file:

src/aerobus.h

# 5.21 aerobus::Quotient < Ring, X >::val < V > Struct Template Reference

#### **Public Types**

using type = std::conditional\_t< Ring::template pos\_v< tmp >, tmp, typename Ring::template sub\_t< typename Ring::zero, tmp > >

The documentation for this struct was generated from the following file:

· src/aerobus.h

# 5.22 aerobus::zpz::val< x > Struct Template Reference

# **Public Types**

using is\_zero\_t = std::bool\_constant< x% p==0 >

# **Static Public Member Functions**

- template<typename valueType > static constexpr valueType get ()
- static std::string to\_string ()
- template<typename valueRing >
   static constexpr valueRing eval (const valueRing &v)

#### **Static Public Attributes**

• static constexpr int32\_t v = x % p

The documentation for this struct was generated from the following file:

src/aerobus.h

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# 5.23 aerobus::polynomial< Ring, variable\_name >::val< coeffN > Struct Template Reference

#### specialization for constants

```
#include <aerobus.h>
```

#### Classes

- · struct coeff at
- struct coeff\_at< index, std::enable\_if\_t<(index<0||index > 0)>>
- struct coeff at< index, std::enable if t<(index==0)>>

# **Public Types**

```
• using aN = coeffN
```

- using strip = val< coeffN >
- using is\_zero\_t = std::bool\_constant< aN::is\_zero\_t::value >
- template<size\_t index>
   using coeff\_at\_t = typename coeff\_at< index >::type

#### **Static Public Member Functions**

- static std::string to\_string ()
- template<typename valueRing >
   static constexpr valueRing eval (const valueRing &x)

#### Static Public Attributes

- static constexpr size\_t degree = 0
- static constexpr bool is\_zero\_v = is\_zero\_t::value

# 5.23.1 Detailed Description

```
template < typename Ring, char variable_name = 'x' > template < typename coeffN > struct aerobus::polynomial < Ring, variable_name >::val < coeffN > specialization for constants

Template Parameters

| CoeffN |
```

The documentation for this struct was generated from the following file:

• src/aerobus.h

# 5.24 aerobus::zpz Struct Template Reference

#include <aerobus.h>

#### Classes

struct val

#### **Public Types**

```
using inner_type = int32_t
template<auto x>
  using inject_constant_t = val< static_cast< int32_t >(x)>
• using zero = val< 0 >
• using one = val< 1 >
• template<typename v1 , typename v2 >
  using add_t = typename add< v1, v2 >::type
     addition operator
• template<typename v1 , typename v2 >
  using sub_t = typename sub< v1, v2 >::type
     substraction operator
• template<typename v1 , typename v2 >
  using mul_t = typename mul < v1, v2 >::type
     multiplication operator
• template<typename v1 , typename v2 >
  using div_t = typename div < v1, v2 >::type
     division operator
• template<typename v1 , typename v2 >
  using mod_t = typename remainder < v1, v2 >::type
     modulo operator
• template<typename v1 , typename v2 >
  using gt_t = typename gt < v1, v2 >::type
     strictly greater operator (type)
• template<typename v1 , typename v2 >
  using It_t = typename It< v1, v2 >::type
     strictly smaller operator (type)
• template<typename v1 , typename v2 >
  using eq_t = typename eq< v1, v2 >::type
     equality operator (type)

    template<typename v1 , typename v2 >

  using gcd_t = gcd_t < i32, v1, v2 >
     greatest common divisor
• template<typename v1 >
  using pos_t = typename pos< v1 >::type
     positivity operator (type)
```

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#### **Static Public Attributes**

# 5.24.1 Detailed Description

```
template<int32_t p> struct aerobus::zpz
```

congruence classes of integers for a modulus if p is prime, zpz is a field, otherwise an integral domain with all related operations

The documentation for this struct was generated from the following file:

• src/aerobus.h

# **Chapter 6**

# **File Documentation**

```
00001 // -*- lsst-c++
00002 #ifndef __INC_AEROBUS__ // NOLINT
00003 #define __INC_AEROBUS__
00004
00005 #include <cstdint>
00006 #include <cstddef>
00007 #include <cstring>
00008 #include <type_traits>
00009 #include <utility>
00010 #include <algorithm>
00011 #include <functional>
00012 #include <string>
00013 #include <concepts> // NOLINT
00014 #include <array>
00015
00016
00017 #ifdef _MSC_VER
00018 #define ALIGNED(x) __declspec(align(x))
00019 #define INLINED __forceinline
00021 #define ALIGNED(x) __attribute__((aligned(x)))
00022 #define INLINED __attribute__((always_inline)) inline
00023 #endif
00024
00025 // aligned allocation
00026 namespace aerobus {
          template<typename T>
00034
          T* aligned_malloc(size_t count, size_t alignment) {
00035
              #ifdef _MSC_VER
00036
              return static_cast<T*>(_aligned_malloc(count * sizeof(T), alignment));
00037
              #else
00038
              return static_cast<T*>(aligned_alloc(alignment, count * sizeof(T)));
00039
00040
00041
00050
          template<typename T, size_t N>
00051
          constexpr bool contains (const std::array<T, N>& arr, const T& v) {
              for (const auto& vv : arr) {
00052
                  if (v == vv) {
00054
                       return true;
00055
00056
              }
00057
00058
              return false;
00059
00060
00061 } // namespace aerobus
00062
00063 // concepts
00064 namespace aerobus {
00066
          template <typename R>
00067
          concept IsRing = requires {
00068
              typename R::one;
00069
              typename R::zero;
00070
              typename R::template add_t<typename R::one, typename R::one>;
              typename R::template sub_t<typename R::one, typename R::one>;
00071
00072
              typename R::template mul_t<typename R::one, typename R::one>;
00073
```

```
00074
00076
          template <typename R>
00077
          concept IsEuclideanDomain = IsRing<R> && requires {
00078
              typename R::template div_t<typename R::one, typename R::one>;
00079
               typename R::template mod_t<typename R::one, typename R::one>;
               typename R::template gcd_t<typename R::one, typename R::one>;
typename R::template eq_t<typename R::one, typename R::one>;
00080
00082
               typename R::template pos_t<typename R::one>;
00083
00084
               R::template pos_v<typename R::one> == true;
              // typename R::template gt_t<typename R::one, typename R::zero>;
R::is_euclidean_domain == true;
00085
00086
00087
          };
00088
00090
          template<typename R>
          concept IsField = IsEuclideanDomain<R> && requires {
   R::is_field == true;
00091
00092
00093
00094 } // namespace aerobus
00095
00096 // utilities
00097 namespace aerobus {
00098
          namespace internal {
00099
              \label{template} \verb|template| < typename ...> typename TT, typename T>
00100
               struct is_instantiation_of : std::false_type { };
00101
00102
               template<template<typename...> typename TT, typename... Ts>
00103
               struct is_instantiation_of<TT, TT<Ts...» : std::true_type { };</pre>
00104
               template<template<typename...> typename TT, typename T>
00105
00106
              inline constexpr bool is_instantiation_of_v = is_instantiation_of<TT, T>::value;
00107
00108
               template <int64_t i, typename T, typename... Ts>
00109
               struct type_at {
                  static_assert(i < sizeof...(Ts) + 1, "index out of range");
using type = typename type_at<i - 1, Ts...>::type;
00110
00111
00112
              };
00113
00114
               template <typename T, typename... Ts> struct type_at<0, T, Ts...> {
00115
                  using type = T;
00116
               };
00117
00118
               template <size_t i, typename... Ts>
00119
               using type_at_t = typename type_at<i, Ts...>::type;
00120
00121
00122
               template<int32_t n, int32_t i, typename E = void>
00123
              struct _is_prime {};
00124
00125
               template<int32 t i>
00126
               struct _is_prime<1, i> {
00127
                  static constexpr bool value = false;
00128
00129
               template<int32 t i>
00130
               struct _is_prime<2, i> {
00131
                 static constexpr bool value = true;
00133
00134
00135
               template<int32_t i>
00136
               struct _is_prime<3, i> {
                  static constexpr bool value = true;
00137
00138
00139
00140
               template<int32_t i>
00141
               struct _is_prime<5, i> {
                  static constexpr bool value = true;
00142
00143
00144
00145
               template<int32_t i>
00146
               struct _is_prime<7, i> {
00147
                   static constexpr bool value = true;
00148
00149
               template<int32_t n, int32_t i> struct _is_prime<n, i, std::enable_if_t<(n != 2 && n % 2 == 0)>> {
00150
00151
00152
                  static constexpr bool value = false;
00153
00154
               00155
00156
                  static constexpr bool value = false;
00157
00158
00159
00160
               template<int32_t n, int32_t i>
               struct _is_prime<n, i, std::enable_if_t<(n >= 9 && i * i > n)» {
00161
00162
                   static constexpr bool value = true;
```

```
00163
              };
00164
00165
               template<int32_t n, int32_t i>
00166
               struct _is_prime<n, i, std::enable_if_t<(
00167
                  n % i == 0 &&
                   n >= 9 &&
00168
                  n % 3 != 0 &&
00169
00170
                   n % 2 != 0 &&
00171
                   i * i > n)» {
00172
                   static constexpr bool value = true;
00173
00174
              template<int32_t n, int32_t i>
struct _is_prime<n, i, std::enable_if_t<(</pre>
00175
00176
00177
                  n % (i+2) == 0 &&
00178
                   n >= 9 \& \&
                   n % 3 != 0 &&
00179
                   n % 2 != 0 &&
00180
00181
                   i * i <= n) » {
00182
                   static constexpr bool value = true;
00183
00184
00185
              template<int32_t n, int32_t i>
00186
              struct _is_prime<n, i, std::enable_if_t<( n % (i+2) != 0 &&
00187
                       n % i != 0 &&
00188
00189
                       n >= 9 &&
00190
                       n % 3 != 0 &&
                       n % 2 != 0 &&
00191
00192
                       (i * i \le n)) > \{
00193
                   static constexpr bool value = _is_prime<n, i+6>::value;
00194
              };
00195
00196
          } // namespace internal
00197
00200
          template<int32_t n>
00201
          struct is prime {
00203
              static constexpr bool value = internal::_is_prime<n, 5>::value;
00204
00205
00206
          template<int32_t n>
00207
          static constexpr bool is_prime_v = is_prime<n>::value;
00208
00209
          namespace internal {
00210
              template <std::size_t... Is>
00211
              constexpr auto index_sequence_reverse(std::index_sequence<Is...> const&)
00212
                   -> decltype(std::index_sequence<sizeof...(Is) - 1U - Is...>{});
00213
00214
              template <std::size t N>
00215
              using make index sequence reverse
00216
                    = decltype(index_sequence_reverse(std::make_index_sequence<N>{}));
00217
00223
              template<typename Ring, typename E = void>
00224
              struct gcd;
00225
00226
               template<typename Ring>
              struct gcd<Ring, std::enable_if_t<Ring::is_euclidean_domain» {</pre>
00228
                   template<typename A, typename B, typename E = void>
00229
                   struct gcd_helper {};
00230
                   //B = 0.A > 0
00231
                   template<typename A, typename B>
struct gcd_helper<A, B, std::enable_if_t</pre>
00232
00233
00234
                       ((B::is_zero_t::value) &&
00235
                            (Ring::template gt_t<A, typename Ring::zero>::value))» {
00236
                       using type = A;
00237
                   };
00238
00239
                   // B = 0, A < 0
                   template<typename A, typename B>
00240
00241
                   struct gcd_helper<A, B, std::enable_if_t<
00242
                       ((B::is_zero_t::value) &&
00243
                           !(Ring::template gt_t<A, typename Ring::zero>::value))» {
00244
                       using type = typename Ring::template sub_t<typename Ring::zero, A>;
00245
                   };
00246
00247
                   // B != 0
                   template<typename A, typename B>
00248
                   struct gcd_helper<A, B, std::enable_if_t<
00249
00250
                       (!B::is_zero_t::value)
00251
                       » {
                   private: // NOLINT
00252
00253
                       // A / B
00254
                       using k = typename Ring::template div_t<A, B>;
00255
                       // A - (A/B) *B = A % B
00256
                       using m = typename Ring::template sub_t<A, typename Ring::template mul_t<k, B»;
00257
```

```
public:
00259
                      using type = typename gcd_helper<B, m>::type;
00260
                   };
00261
00262
                  template<typename A, typename B>
00263
                  using type = typename gcd_helper<A, B>::type;
00265
          } // namespace internal
00266
00269
          template<typename T, typename A, typename B>
          using gcd_t = typename internal::gcd<T>::template type<A, B>;
00270
00271 } // namespace aerobus
00272
00273 // quotient ring by the principal ideal generated by X
00274 namespace aerobus {
00275
          template<typename Ring, typename X>
00276
          requires IsRing<Ring>
00277
          struct Ouotient {
              template <typename V>
              struct val {
 private: // NOLINT
00279
00280
00281
                  using tmp = typename Ring::template mod_t<V, X>;
00282
00283
                public:
00284
                  using type = std::conditional_t<
00285
                     Ring::template pos_v<tmp>,
00286
00287
                       typename Ring::template sub_t<typename Ring::zero, tmp>
00288
00289
              };
00290
00291
              using zero = val<typename Ring::zero>;
00292
              using one = val<typename Ring::one>;
00293
00294
               template<typename v1, typename v2>
              using add_t = val<typename Ring::template add_t<typename v1::type, typename v2::type>>;
00295
00296
               template<typename v1, typename v2>
00297
              using mul_t = val<typename Ring::template mul_t<typename v1::type, typename v2::type>>;
00298
               template<typename v1, typename v2>
00299
               using div_t = val<typename Ring::template div_t<typename v1::type, typename v2::type>>;
00300
               template<typename v1, typename v2>
              using mod_t = val<typename Ring::template mod_t<typename v1::type, typename v2::type>>;
00301
00302
              template<typename v1, typename v2>
              using eq_t = typename Ring::template eq_t<typename v1::type, typename v2::type>;
00303
               template<typename v1, typename v2>
00304
00305
               static constexpr bool eq_v = Ring::template eq_t<typename v1::type, typename v2::type>::value;
00306
              template<typename v1>
00307
              using pos_t = std::true_type;
00308
00309
              template<tvpename v>
00310
              static constexpr bool pos_v = pos_t<v>::value;
00311
00312
              static constexpr bool is_euclidean_domain = true;
00313
00314
              template<auto x>
00315
              using inject constant t = val<typename Ring::template inject constant t<x>>;
00316
00317
               template<typename v>
00318
              using inject_ring_t = val<v>;
00319
          } ;
00320 } // namespace aerobus
00321
00322 // type_list
00323 namespace aerobus {
00325
          template <typename... Ts>
00326
          struct type_list;
00327
00328
          namespace internal {
              template <typename T, typename... Us>
00329
00330
              struct pop_front_h {
                 using tail = type_list<Us...>;
using head = T;
00331
00332
00333
              };
00334
00335
              template <size_t index, typename L1, typename L2>
00336
               struct split_h {
00337
00338
                  static_assert(index <= L2::length, "index ouf of bounds");</pre>
                  using a = typename L2::pop_front::type;
using b = typename L2::pop_front::tail;
00339
00340
                  using c = typename L1::template push_back<a>;
00341
00342
00343
               public:
                  using head = typename split_h<index - 1, c, b>::head; using tail = typename split_h<index - 1, c, b>::tail;
00344
00345
00346
              };
00347
```

```
template <typename L1, typename L2>
00349
               struct split_h<0, L1, L2> {
00350
                   using head = L1;
00351
                   using tail = L2;
00352
00353
               template <size_t index, typename L, typename T>
00355
               struct insert_h {
00356
                  static_assert(index <= L::length, "index ouf of bounds");</pre>
00357
                   using s = typename L::template split<index>;
                   using left = typename s::head;
using right = typename s::tail;
00358
00359
                   using ll = typename left::template push_back<T>;
00360
00361
                   using type = typename ll::template concat<right>;
00362
               };
00363
00364
               template <size_t index, typename L>
00365
               struct remove_h {
00366
                   using s = typename L::template split<index>;
00367
                   using left = typename s::head;
00368
                    using right = typename s::tail;
00369
                   using rr = typename right::pop_front::tail;
                   using type = typename left::template concat<rr>;
00370
00371
          };
} // namespace internal
00372
00373
00374
00377
          template <typename... Ts>
00378
          struct type_list {
00379
           private:
00380
               template <typename T>
00381
               struct concat_h;
00382
00383
               template <typename... Us>
00384
               struct concat_h<type_list<Us...» {</pre>
00385
                   using type = type_list<Ts..., Us...>;
00386
               };
00387
00388
00390
              static constexpr size_t length = sizeof...(Ts);
00391
00394
               \texttt{template} \; \texttt{<typename} \; \; \texttt{T>}
00395
               using push_front = type_list<T, Ts...>;
00396
00399
               template <size_t index>
00400
               using at = internal::type_at_t<index, Ts...>;
00401
               struct pop_front {
   using type = typename internal::pop_front_h<Ts...>::head;
   using tail = typename internal::pop_front_h<Ts...>::tail;
00403
00405
00407
00408
               };
00409
00412
               template <typename T>
00413
               using push_back = type_list<Ts..., T>;
00414
00417
               template <typename U>
00418
               using concat = typename concat_h<U>::type;
00419
00422
               template <size_t index>
00423
               struct split {
00424
               private:
00425
                   using inner = internal::split_h<index, type_list<>, type_list<Ts...»;</pre>
00426
00427
00428
                   using head = typename inner::head;
00429
                   using tail = typename inner::tail;
00430
00431
00435
               template <typename T, size_t index>
00436
               using insert = typename internal::insert_h<index, type_list<Ts...>, T>::type;
00437
00440
               template <size_t index>
00441
               using remove = typename internal::remove_h<index, type_list<Ts...»::type;</pre>
00442
          };
00443
00444
           template <>
00445
          struct type_list<> {
00446
               static constexpr size_t length = 0;
00447
00448
               template <typename T>
               using push_front = type_list<T>;
00449
00450
00451
               template <typename T>
00452
               using push_back = type_list<T>;
00453
00454
               template <typename U> \,
00455
               using concat = U:
```

```
00456
00457
              // TODO(jewave): assert index == 0
             template <typename T, size_t index>
using insert = type_list<T>;
00458
00459
00460
          };
00461 } // namespace aerobus
00462
00463 // i32
00464 namespace aerobus {
00466
          struct i32 {
00467
              using inner_type = int32_t;
              template<int32_t x>
00470
00471
              struct val {
                  static constexpr int32_t v = x;
00473
00474
00477
                  template<typename valueType>
                  static constexpr valueType get() { return static_cast<valueType>(x); }
00478
00479
00481
                  using is_zero_t = std::bool_constant<x == 0>;
00482
00484
                  static std::string to_string() {
00485
                      return std::to_string(x);
                  }
00486
00487
00490
                  template<typename valueRing>
00491
                  static constexpr valueRing eval(const valueRing& v) {
00492
                      return static_cast<valueRing>(x);
00493
00494
              } ;
00495
00497
              using zero = val<0>:
00499
              using one = val<1>;
00501
              static constexpr bool is_field = false;
00503
              static constexpr bool is_euclidean_domain = true;
00507
              template<auto x>
              using inject_constant_t = val<static_cast<int32_t>(x)>;
00508
00509
00510
              template<typename v>
00511
              using inject_ring_t = v;
00512
           private:
00513
              template<typename v1, typename v2>
00514
00515
              struct add {
00516
                  using type = val<v1::v + v2::v>;
00517
00518
00519
              template<typename v1, typename v2>
              struct sub {
00520
                  using type = val<v1::v - v2::v>;
00521
00522
00523
00524
              template<typename v1, typename v2>
00525
              struct mul {
00526
                 using type = val<v1::v* v2::v>;
00527
00528
00529
              template<typename v1, typename v2>
00530
00531
                  using type = val<v1::v / v2::v>;
00532
00533
              template<typename v1, typename v2>
00534
00535
              struct remainder {
00536
                 using type = val<v1::v % v2::v>;
00537
00538
00539
              template<typename v1, typename v2>
00540
              struct at {
                  using type = std::conditional_t<(v1::v > v2::v), std::true_type, std::false_type>;
00541
00542
00543
00544
              template<typename v1, typename v2>
00545
              struct lt {
                  using type = std::conditional_t<(v1::v < v2::v), std::true_type, std::false_type>;
00546
00547
00548
00549
              template<typename v1, typename v2>
00550
                  using type = std::conditional_t<(v1::v == v2::v), std::true_type, std::false_type>;
00551
00552
00553
00554
              template<typename v1>
00555
              struct pos {
00556
                  using type = std::bool_constant<(v1::v > 0)>;
00557
00558
00559
           public:
```

```
template<typename v1, typename v2>
00562
              using add_t = typename add<v1, v2>::type;
00563
00565
              template<typename v1, typename v2>
              using sub_t = typename sub<v1, v2>::type;
00566
00567
00569
              template<typename v1, typename v2>
00570
              using mul_t = typename mul<v1, v2>::type;
00571
00573
              template<typename v1, typename v2>
00574
              using div_t = typename div<v1, v2>::type;
00575
00577
              template<typename v1, typename v2>
00578
              using mod_t = typename remainder<v1, v2>::type;
00579
00581
              template<typename v1, typename v2>
00582
              using gt_t = typename gt<v1, v2>::type;
00583
              template<typename v1, typename v2>
00586
              using lt_t = typename lt<v1, v2>::type;
00587
00589
              template<typename v1, typename v2> ^{\circ}
00590
              using eq_t = typename eq<v1, v2>::type;
00591
00595
              template<typename v1, typename v2>
00596
              static constexpr bool eq_v = eq_t<v1, v2>::value;
00597
00599
              template<typename v1, typename v2>
00600
              using gcd_t = gcd_t < i32, v1, v2>;
00601
00603
              template < typename v >
00604
              using pos_t = typename pos<v>::type;
00605
00608
              {\tt template}{<}{\tt typename}\ {\tt v}{>}
00609
              static constexpr bool pos_v = pos_t<v>::value;
00610
          };
00611 } // namespace aerobus
00612
00613 // i64
00614 namespace aerobus {
00616
          struct i64 {
00617
              using inner_type = int64_t;
              template<int64_t x>
00620
00621
              struct val {
00622
                  static constexpr int64_t v = x;
00623
00626
                  template<typename valueType>
                  static constexpr valueType get() { return static_cast<valueType>(x); }
00627
00628
00630
                  using is zero t = std::bool constant<x == 0>;
00631
00633
                  static std::string to_string() {
00634
                      return std::to_string(x);
00635
00636
00639
                  template<typename valueRing>
                  static constexpr valueRing eval(const valueRing& v) {
00641
                      return static_cast<valueRing>(x);
00642
00643
              };
00644
00648
              template<auto x>
00649
              using inject_constant_t = val<static_cast<int64_t>(x)>;
00650
00651
              template<typename v>
00652
              using inject_ring_t = v;
00653
00655
              using zero = val<0>:
              using one = val<1>;
00657
              static constexpr bool is_field = false;
00661
              static constexpr bool is_euclidean_domain = true;
00662
           private:
00663
              template<typename v1, typename v2>
00664
00665
              struct add {
                  using type = val<v1::v + v2::v>;
00666
00667
00668
00669
              template<typename v1, typename v2>
00670
              struct sub {
00671
                  using type = val<v1::v - v2::v>;
00672
00673
00674
              template<typename v1, typename v2>
00675
              struct mul {
                  using type = val<v1::v* v2::v>;
00676
00677
              };
```

```
00679
              template<typename v1, typename v2>
              struct div {
00680
                 using type = val<v1::v / v2::v>;
00681
00682
00683
00684
              template<typename v1, typename v2>
00685
              struct remainder {
00686
                 using type = val<v1::v% v2::v>;
00687
00688
00689
              template<typename v1, typename v2>
00690
              struct qt {
00691
                  using type = std::conditional_t<(v1::v > v2::v), std::true_type, std::false_type>;
00692
00693
00694
              template<typename v1, typename v2>
00695
              struct lt {
00696
                  using type = std::conditional_t<(v1::v < v2::v), std::true_type, std::false_type>;
00697
00698
00699
              template<typename v1, typename v2>
00700
              struct eq {
00701
                  using type = std::conditional_t<(v1::v == v2::v), std::true_type, std::false_type>;
00702
00703
              template<typename v>
00704
00705
              struct pos {
00706
                 using type = std::bool_constant<(v::v > 0)>;
00707
00708
00709
           public:
00713
              template<typename v1, typename v2>
00714
              using add_t = typename add<v1, v2>::type;
00715
00719
              template<typename v1, typename v2> ^{\circ}
00720
              using sub_t = typename sub<v1, v2>::type;
00721
00725
              template<typename v1, typename v2>
00726
              using mul_t = typename mul<v1, v2>::type;
00727
00731
              template<typename v1, typename v2>
00732
              using div t = typename div<v1, v2>::type;
00733
00737
              template<typename v1, typename v2>
00738
              using mod_t = typename remainder<v1, v2>::type;
00739
00743
              template<typename v1, typename v2>
00744
              using gt_t = typename gt<v1, v2>::type;
00745
00749
              template<typename v1, typename v2>
00750
              static constexpr bool gt_v = gt_t<v1, v2>::value;
00751
00755
              template<typename v1, typename v2>
00756
              using lt_t = typename lt<v1, v2>::type;
00757
00761
              template<typename v1, typename v2>
00762
              static constexpr bool lt_v = lt_t<v1, v2>::value;
00763
00767
              template<typename v1, typename v2>
00768
              using eq_t = typename eq<v1, v2>::type;
00769
00773
              template<typename v1, typename v2>
00774
              static constexpr bool eq_v = eq_t<v1, v2>::value;
00775
00779
              template<typename v1, typename v2>
00780
              using gcd_t = gcd_t < i64, v1, v2>;
00781
00784
              template<typename v>
00785
              using pos_t = typename pos<v>::type;
00786
00789
              template < typename v >
00790
              static constexpr bool pos_v = pos_t<v>::value;
00791
          };
00792 }
        // namespace aerobus
00793
00794 // z/pz
00795 namespace aerobus {
00800
          template<int32_t p>
00801
          struct zpz {
             using inner_type = int32_t;
00802
00803
              template<int32_t x>
00804
              struct val {
00805
                  static constexpr int32_t v = x % p;
00806
00807
                  template<typename valueType>
                  static constexpr valueType get() { return static_cast<valueType>(x % p); }
00808
```

```
00809
00810
                  using is_zero_t = std::bool_constant<x% p == 0>;
00811
                  static std::string to_string() {
00812
                     return std::to_string(x % p);
00813
00814
                  template<typename valueRing>
00816
                  static constexpr valueRing eval(const valueRing& v) {
00817
                     return static_cast<valueRing>(x % p);
00818
00819
              };
00820
00821
              template<auto x>
              using inject_constant_t = val<static_cast<int32_t>(x)>;
00822
00823
00824
              using zero = val<0>;
              using one = val<1>:
00825
00826
              static constexpr bool is field = is prime::value;
00827
              static constexpr bool is_euclidean_domain = true;
00828
00829
00830
              template<typename v1, typename v2>
00831
              struct add {
                  using type = val<(v1::v + v2::v) % p>;
00832
00833
00834
              template<typename v1, typename v2>
00835
00836
              struct sub {
                 using type = val<(v1::v - v2::v) % p>;
00837
00838
00839
00840
              template<typename v1, typename v2>
00841
00842
                  using type = val<(v1::v* v2::v) % p>;
00843
00844
00845
              template<typename v1, typename v2>
              struct div {
00847
                 using type = val<(v1::v% p) / (v2::v % p)>;
00848
00849
00850
              template<typename v1, typename v2>
00851
              struct remainder {
00852
                  using type = val<(v1::v% v2::v) % p>;
00853
00854
00855
              template<typename v1, typename v2>
00856
              struct gt {
                  using type = std::conditional_t<(v1::v% p > v2::v% p), std::true_type, std::false_type>;
00857
00858
00859
00860
              template<typename v1, typename v2>
00861
              struct lt {
00862
                 using type = std::conditional_t<(v1::v% p < v2::v% p), std::true_type, std::false_type>;
00863
00864
00865
              template<typename v1, typename v2>
00866
              struct eq {
00867
                  using type = std::conditional_t<(v1::v% p == v2::v % p), std::true_type, std::false_type>;
00868
00869
00870
              template<typename v1>
00871
              struct pos {
00872
                 using type = std::bool_constant<(v1::v > 0)>;
00873
              };
00874
00875
           public:
00877
              template<typename v1, typename v2>
00878
              using add_t = typename add<v1, v2>::type;
00879
00881
              template<typename v1, typename v2>
00882
              using sub_t = typename sub<v1, v2>::type;
00883
00885
              template<typename v1, typename v2>
00886
              using mul_t = typename mul<v1, v2>::type;
00887
00889
              template<typename v1, typename v2>
00890
              using div_t = typename div<v1, v2>::type;
00891
00893
              template<typename v1, typename v2>
00894
              using mod_t = typename remainder<v1, v2>::type;
00895
00897
              template<typename v1, typename v2>
00898
              using gt_t = typename gt<v1, v2>::type;
00899
              template<typename v1, typename v2>
static constexpr bool gt_v = gt_t<v1, v2>::value;
00901
00902
```

```
template<typename v1, typename v2>
using lt_t = typename lt<v1, v2>::type;
00905
00906
00907
00909
              template<typename v1, typename v2>
static constexpr bool lt_v = lt_t<v1, v2>::value;
00910
00911
00913
               template<typename v1, typename v2>
00914
              using eq_t = typename eq<v1, v2>::type;
00915
              template<typename v1, typename v2>
static constexpr bool eq_v = eq_t<v1, v2>::value;
00917
00918
00919
00921
               template<typename v1, typename v2>
00922
              using gcd_t = gcd_t<i32, v1, v2>;
00923
00925
              template<typename v1>
00926
              using pos_t = typename pos<v1>::type;
00929
              template<typename v>
00930
              static constexpr bool pos_v = pos_t<v>::value;
00931
          } ;
00932 } // namespace aerobus
00933
00934 // polynomial
00935 namespace aerobus {
00936
          // coeffN x^N + ...
00941
          template<typename Ring, char variable_name = 'x'>
00942
          requires IsEuclideanDomain<Ring>
00943
          struct polynomial {
00944
              static constexpr bool is_field = false;
00945
              static constexpr bool is_euclidean_domain = Ring::is_euclidean_domain;
00946
              template<typename coeffN, typename... coeffs>
00950
               struct val {
00951
00953
                  static constexpr size_t degree = sizeof...(coeffs);
00955
                   using aN = coeffN;
                  using strip = val<coeffs...>;
00959
                  using is_zero_t = std::bool_constant<(degree == 0) && (aN::is_zero_t::value)>;
00961
                  static constexpr bool is_zero_v = is_zero_t::value;
00962
00963
               private:
                  template<size_t index, typename E = void>
00964
00965
                  struct coeff_at {};
00966
00967
                  template<size_t index>
00968
                  struct coeff_at<index, std::enable_if_t<(index >= 0 && index <= sizeof...(coeffs))» {</pre>
00969
                       using type = internal::type_at_t<sizeof...(coeffs) - index, coeffN, coeffs...>;
00970
00971
00972
                  template<size_t index>
00973
                  struct coeff_at<index, std::enable_if_t<(index < 0 || index > sizeof...(coeffs))» {
00974
                       using type = typename Ring::zero;
00975
00976
00977
                public:
00980
                  template<size_t index>
00981
                  using coeff_at_t = typename coeff_at<index>::type;
00982
00985
                   static std::string to_string() {
                       return string_helper<coeffN, coeffs...>::func();
00986
00987
                   }
00988
00993
                  template<typename valueRing>
00994
                   static constexpr valueRing eval(const valueRing& x) {
00995
                       return horner_evaluation<valueRing, val>
00996
                               ::template inner<0, degree + 1>
00997
                                ::func(static_cast<valueRing>(0), x);
00998
00999
              };
01000
01003
              template<typename coeffN>
01004
               struct val<coeffN> {
01005
                  static constexpr size_t degree = 0;
01006
                   using aN = coeffN;
01007
                   using strip = val<coeffN>;
01008
                  using is_zero_t = std::bool_constant<aN::is_zero_t::value>;
01009
                  static constexpr bool is_zero_v = is_zero_t::value;
01010
01011
01012
                  template<size t index, typename E = void>
01013
                  struct coeff_at {};
01014
01015
                   template<size_t index>
01016
                   struct coeff_at<index, std::enable_if_t<(index == 0)» {</pre>
01017
                       using type = aN;
01018
                   };
```

```
01019
01020
                  template<size_t index>
01021
                  struct coeff_at<index, std::enable_if_t<(index < 0 || index > 0)» {
01022
                      using type = typename Ring::zero;
01023
01024
01025
                  template<size_t index>
01026
                  using coeff_at_t = typename coeff_at<index>::type;
01027
01028
                  static std::string to_string() {
01029
                      return string_helper<coeffN>::func();
01030
01031
01032
                  template<typename valueRing>
01033
                  static constexpr valueRing eval(const valueRing& x) {
01034
                      return static_cast<valueRing>(aN::template get<valueRing>());
01035
                  }
01036
              };
01037
01039
              using zero = val<typename Ring::zero>;
01041
              using one = val<typename Ring::one>;
01043
              using X = val<typename Ring::one, typename Ring::zero>;
01044
01045
01046
              template<typename P, typename E = void>
01047
              struct simplify;
01048
01049
              template <typename P1, typename P2, typename I>
01050
              struct add_low;
01051
01052
              template<typename P1, typename P2>
01053
              struct add {
01054
                 using type = typename simplify<typename add_low<
01055
                  P1,
01056
                  P2,
                  internal::make_index_sequence_reverse<</pre>
01057
01058
                  std::max(P1::degree, P2::degree) + 1
                  »::type>::type;
01060
01061
01062
              template <typename P1, typename P2, typename I>
01063
              struct sub low;
01064
01065
              template <typename P1, typename P2, typename I>
01066
              struct mul_low;
01067
01068
              template<typename v1, typename v2>
01069
              struct mul {
01070
                      using type = typename mul_low<
01071
01072
                           v2
01073
                           internal::make_index_sequence_reverse<</pre>
01074
                          v1::degree + v2::degree + 1
01075
                          »::type;
01076
              };
01077
01078
              template<typename coeff, size_t deg>
01079
              struct monomial:
01080
01081
              template<typename v, typename E = void>
01082
              struct derive_helper {};
01083
01084
              template<typename v>
01085
              struct derive_helper<v, std::enable_if_t<v::degree == 0» {</pre>
01086
                  using type = zero;
01087
01088
01089
              template<tvpename v>
01090
              struct derive_helper<v, std::enable_if_t<v::degree != 0» {</pre>
                  using type = typename add<
01092
                      typename derive_helper<typename simplify<typename v::strip>::type>::type,
                       typename monomial<
01093
01094
                          typename Ring::template mul_t<</pre>
01095
                               typename v::aN,
01096
                               typename Ring::template inject_constant_t<(v::degree)>
01097
01098
                          v::degree - 1
01099
                      >::type
01100
                  >::type;
01101
              }:
01102
01103
              template<typename v1, typename v2, typename E = void>
01104
              struct eq_helper {};
01105
01106
              template<typename v1, typename v2> \,
              struct eq_helper<v1, v2, std::enable_if_t<v1::degree != v2::degree» {</pre>
01107
                  using type = std::false_type;
01108
```

```
01109
               };
01110
01111
01112
               template<typename v1, typename v2>
               struct eq_helper<v1, v2, std::enable_if_t<
   v1::degree == v2::degree &&</pre>
01113
01114
                   (v1::degree != 0 || v2::degree != 0) &&
01115
01116
                   std::is_same<
01117
                   typename Ring::template eq_t<typename v1::aN, typename v2::aN>,
01118
                   std::false_type
01119
                   >::value
01120
              > {
01121
01122
                   using type = std::false_type;
01123
               };
01124
               template<typename v1, typename v2>
struct eq_helper<v1, v2, std::enable_if_t<
    v1::degree == v2::degree &&</pre>
01125
01126
01127
01128
                   (v1::degree != 0 || v2::degree != 0) &&
01129
                   std::is_same<
01130
                   typename Ring::template eq_t<typename v1::aN, typename v2::aN>,
01131
                   std::true_type
01132
                   >::value
               » {
01133
01134
                   using type = typename eq_helper<typename v1::strip, typename v2::strip>::type;
01135
               } ;
01136
01137
               template<typename v1, typename v2>
01138
               struct eq_helper<v1, v2, std::enable_if_t<
    v1::degree == v2::degree &&</pre>
01139
01140
                   (v1::degree == 0)
01141
01142
                   using type = typename Ring::template eq_t<typename v1::aN, typename v2::aN>;
01143
01144
01145
               template<typename v1, typename v2, typename E = void>
01146
               struct lt_helper {};
01147
01148
               template<typename v1, typename v2>
01149
               struct lt_helper<v1, v2, std::enable_if_t<(v1::degree < v2::degree)» {</pre>
                   using type = std::true_type;
01150
01151
01152
01153
               template<typename v1, typename v2>
01154
               struct lt_helper<v1, v2, std::enable_if_t<(v1::degree == v2::degree)» {</pre>
01155
                  using type = typename Ring::template lt_t<typename v1::aN, typename v2::aN>;
01156
               };
01157
01158
               template<typename v1, typename v2> \,
               struct lt_helper<v1, v2, std::enable_if_t<(v1::degree > v2::degree)» {
01159
01160
                   using type = std::false_type;
01161
01162
               template<typename v1, typename v2, typename E = void>
01163
01164
               struct at helper {};
01165
01166
               template<typename v1, typename v2>
01167
               struct gt_helper<v1, v2, std::enable_if_t<(v1::degree > v2::degree)» {
01168
                   using type = std::true_type;
01169
01170
01171
               template<typename v1, typename v2>
01172
               struct gt_helper<v1, v2, std::enable_if_t<(v1::degree == v2::degree)» {</pre>
01173
                   using type = std::false_type;
01174
01175
01176
               template<typename v1, typename v2>
               struct gt_helper<v1, v2, std::enable_if_t<(v1::degree < v2::degree)» {
01177
                  using type = std::false_type;
01178
01179
01180
               \ensuremath{//} when high power is zero : strip
01181
01182
               template<tvpename P>
               struct simplify<P, std::enable_if_t<
01183
                  std::is_same<
01184
01185
                   typename Ring::zero,
01186
                   typename P::aN
01187
                   >::value && (P::degree > 0)
01188
               » {
01189
                   using type = typename simplify<typename P::strip>::type;
01190
               } ;
01191
01192
               // otherwise : do nothing
01193
               template<typename P>
01194
               struct simplify<P, std::enable_if_t<
01195
                   !std::is same<
```

```
typename Ring::zero,
01197
                 typename P::aN
01198
                 >::value && (P::degree > 0)
01199
01200
                 using type = P;
01201
             };
01202
01203
             // do not simplify constants
01204
             template<typename P>
01205
             struct simplify<P, std::enable_if_t<P::degree == 0» {</pre>
01206
                 using type = P;
01207
01208
01209
             // addition at
01210
             template<typename P1, typename P2, size_t index>
01211
             struct add_at {
01212
                 using type =
                     typename Ring::template add_t<</pre>
01213
01214
                         typename P1::template coeff_at_t<index>,
01215
                         typename P2::template coeff_at_t<index>>;
01216
01217
01218
             template<typename P1, typename P2, size_t index>
01219
             using add_at_t = typename add_at<P1, P2, index>::type;
01220
01221
             template<typename P1, typename P2, std::size_t... I>
01222
             struct add_low<P1, P2, std::index_sequence<I...» {</pre>
01223
                 using type = val<add_at_t<P1, P2, I>...>;
01224
01225
             // substraction at
01226
01227
             template<typename P1, typename P2, size_t index>
01228
             struct sub_at {
01229
                 using type =
01230
                     typename Ring::template sub_t<</pre>
                         typename P1::template coeff_at_t<index>,
01231
                         typename P2::template coeff_at_t<index>>;
01232
             };
01234
01235
             template<typename P1, typename P2, size_t index>
01236
             using sub_at_t = typename sub_at<P1, P2, index>::type;
01237
01238
             template<typename P1, typename P2, std::size_t... I>
             struct sub_low<P1, P2, std::index_sequence<I...» {
01239
01240
                 using type = val<sub_at_t<P1, P2, I>...>;
01241
01242
01243
             template<typename P1, typename P2>
01244
             struct sub {
01245
                using type = typename simplify<typename sub_low<
01246
                 P1,
01247
01248
                 internal::make_index_sequence_reverse<
01249
                 std::max(P1::degree, P2::degree) + 1
01250
                 »::type>::type;
01251
             };
01252
01253
             // multiplication at
01254
             template<typename v1, typename v2, size_t k, size_t index, size_t stop>
01255
             struct mul_at_loop_helper {
01256
                 using type = typename Ring::template add_t<
                     typename Ring::template mul_t<</pre>
01257
01258
                     typename v1::template coeff_at_t<index>,
01259
                     typename v2::template coeff_at_t<k - index>
01260
01261
                     typename mul_at_loop_helper<v1, v2, k, index + 1, stop>::type
01262
01263
             };
01264
01265
             template<typename v1, typename v2, size_t k, size_t stop>
01266
             struct mul_at_loop_helper<v1, v2, k, stop, stop> {
01267
                 using type = typename Ring::template mul_t<</pre>
01268
                     typename v1::template coeff_at_t<stop>,
01269
                     typename v2::template coeff_at_t<0>>;
01270
             };
01271
01272
             template <typename v1, typename v2, size_t k, typename E = void>
01273
             struct mul_at {};
01274
01275
             01276
                 using type = typename Ring::zero;
01278
01279
             01280
01281
01282
                 using type = typename mul_at_loop_helper<v1, v2, k, 0, k>::type;
```

```
01283
01284
01285
              template<typename P1, typename P2, size_t index>
01286
              using mul_at_t = typename mul_at<P1, P2, index>::type;
01287
              template<typename P1, typename P2, std::size_t... I>
struct mul_low<P1, P2, std::index_sequence<I...» {</pre>
01288
01289
01290
                  using type = val<mul_at_t<P1, P2, I>...>;
01291
01292
              // division helper
01293
              template< typename A, typename B, typename Q, typename R, typename E = void>
01294
01295
              struct div_helper {};
01296
01297
               template<typename A, typename B, typename Q, typename R>
              struct div_helper<A, B, Q, R, std::enable_if_t<
    (R::degree < B::degree) ||</pre>
01298
01299
                   (R::degree == 0 && std::is_same<typename R::aN, typename Ring::zero>::value)» {
01300
01301
                  using q_type = Q;
01302
                  using mod_type = R;
01303
                  using gcd_type = B;
01304
01305
01306
              template<typename A, typename B, typename Q, typename R>
struct div_helper<A, B, Q, R, std::enable_if_t</pre>
01307
                (R::degree >= B::degree) &&
01308
01309
                   !(R::degree == 0 && std::is_same<typename R::aN, typename Ring::zero>::value)» {
01310
               private: // NOLINT
01311
                  using rN = typename R::aN;
                   using bN = typename B::aN;
01312
                  using pT = typename monomial<typename Ring::template div_t<rN, bN>, R::degree -
01313
     B::degree>::type;
01314
                 using rr = typename sub<R, typename mul<pT, B>::type>::type;
                  using qq = typename add<Q, pT>::type;
01315
01316
               public:
01317
01318
                  using q_type = typename div_helper<A, B, qq, rr>::q_type;
                  using mod_type = typename div_helper<A, B, qq, rr>::mod_type;
01319
                  using gcd_type = rr;
01320
01321
01322
01323
              template<typename A, typename B>
01324
              struct div {
01325
                  static_assert (Ring::is_euclidean_domain, "cannot divide in that type of Ring");
                   using q_type = typename div_helper<A, B, zero, A>::q_type;
01326
01327
                   using m_type = typename div_helper<A, B, zero, A>::mod_type;
01328
              };
01329
01330
              template<tvpename P>
01331
              struct make unit {
01332
                  using type = typename div<P, val<typename P::aN>>::q_type;
01333
01334
01335
              template<typename coeff, size_t deg>
01336
              struct monomial {
01337
                  using type = typename mul<X, typename monomial<coeff, deg - 1>::type>::type;
01338
01339
01340
              template<typename coeff>
01341
              struct monomial < coeff, 0 > {
01342
                  using type = val<coeff>;
01343
              };
01344
01346
              template<typename valueRing, typename P>
01347
              struct horner_evaluation {
01348
                  template<size_t index, size_t stop>
01349
                   struct inner {
                       static constexpr valueRing func(const valueRing& accum, const valueRing& x) {
01350
01351
                           constexpr valueRing coeff =
01352
                               static_cast<valueRing>(P::template coeff_at_t<P::degree - index>::template
      get<valueRing>());
01353
                           return horner_evaluation<valueRing, P>::template inner<index + 1, stop>::func(x *
      accum + coeff, x);
01354
01355
                  };
01356
01357
                   template<size_t stop>
01358
                   struct inner<stop, stop> {
01359
                       static constexpr valueRing func(const valueRing& accum, const valueRing& x) {
01360
                           return accum:
01361
01362
                  };
01363
01364
01365
              template<typename coeff, typename... coeffs>
01366
              struct string helper {
                  static std::string func() {
01367
```

```
std::string tail = string_helper<coeffs...>::func();
                      std::string result = "";
01369
01370
                      if (Ring::template eq_t<coeff, typename Ring::zero>::value) {
                      return tail;
} else if (Ring::template eq_t<coeff, typename Ring::one>::value) {
01371
01372
01373
                          if (sizeof...(coeffs) == 1) {
01374
                              result += std::string(1, variable_name);
01375
                          } else {
01376
                             result += std::string(1, variable_name) + "^" +
     std::to_string(sizeof...(coeffs));
01377
                          }
01378
                      } else {
01379
                          if (sizeof...(coeffs) == 1) {
01380
                              result += coeff::to_string() + " " + std::string(1, variable_name);
01381
                          } else {
                             01382
01383
                                      + "^" + std::to_string(sizeof...(coeffs));
01384
01385
                          }
01386
01387
                      if (!tail.empty()) {
    result += " + " + tail;
01388
01389
01390
01391
01392
                      return result;
01393
                  }
01394
             };
01395
01396
              template<typename coeff>
01397
              struct string helper<coeff> {
01398
                  static std::string func() {
01399
                     if (!std::is_same<coeff, typename Ring::zero>::value) {
01400
                          return coeff::to_string();
01401
                      } else {
                          return "";
01402
01403
01404
                  }
01405
              };
01406
01407
           public:
01410
              template<typename P>
01411
              using simplify t = typename simplify<P>::type;
01412
              template<typename v1, typename v2>
01416
01417
              using add_t = typename add<v1, v2>::type;
01418
01422
              template<typename v1, typename v2>
01423
              using sub_t = typename sub<v1, v2>::type;
01424
01428
              template<typename v1, typename v2>
01429
              using mul_t = typename mul<v1, v2>::type;
01430
01434
              template<typename v1, typename v2>
01435
              using eq_t = typename eq_helper<v1, v2>::type;
01436
              template<typename v1, typename v2>
01441
              using lt_t = typename lt_helper<v1, v2>::type;
01442
01446
              template<typename v1, typename v2>
01447
              using gt_t = typename gt_helper<v1, v2>::type;
01448
01452
              template<typename v1, typename v2>
              using div_t = typename div<v1, v2>::q_type;
01453
01454
01458
              template<typename v1, typename v2>
01459
              using mod_t = typename div_helper<v1, v2, zero, v1>::mod_type;
01460
01464
              template<typename coeff, size_t deg>
01465
              using monomial_t = typename monomial<coeff, deg>::type;
01466
01469
              template < typename v >
01470
              using derive_t = typename derive_helper<v>::type;
01471
01474
              template<typename v>
01475
              using pos_t = typename Ring::template pos_t<typename v::aN>;
01476
01477
              template<typename v>
01478
              static constexpr bool pos_v = pos_t<v>::value;
01479
01483
              template<typename v1, typename v2>
01484
              using gcd_t = std::conditional_t<
01485
                  Ring::is_euclidean_domain,
01486
                  typename make_unit<gcd_t<polynomial<Ring, variable_name>, v1, v2»::type,
01487
                  void>;
01488
01492
              template<auto x>
```

```
using inject_constant_t = val<typename Ring::template inject_constant_t<x>>;
01494
01498
              template<typename v>
01499
              using inject_ring_t = val<v>;
01500
          };
01501 } // namespace aerobus
01502
01503 // fraction field
01504 namespace aerobus {
01505
          namespace internal {
              template<typename Ring, typename E = void>
01506
01507
              requires IsEuclideanDomain<Ring>
01508
              struct _FractionField {};
01509
01510
              template<typename Ring>
01511
              requires IsEuclideanDomain<Ring>
              struct _FractionField<Ring, std::enable_if_t<Ring::is_euclidean_domain> {
01512
                  static constexpr bool is_field = true;
static constexpr bool is_euclidean_domain = true;
01514
01515
01516
01517
01518
                  template<typename val1, typename val2, typename E = void>
01519
                  struct to_string_helper {};
01520
01521
                  template<typename val1, typename val2>
                  struct to_string_helper <val1, val2,
01522
01523
                       std::enable_if_t<
01524
                      Ring::template eq_t<
01525
                      val2, typename Ring::one
01526
                      >::value
01527
01528
                  > {
01529
                      static std::string func() {
01530
                          return vall::to_string();
01531
                  };
01532
01533
01534
                  template<typename val1, typename val2>
01535
                  struct to_string_helper<val1, val2,
01536
                     std::enable_if_t<
01537
                      !Ring::template eq_t<
01538
                      val2,
                      typename Ring::one
01539
01540
                      >::value
01541
01542
                  > {
01543
                      static std::string func() {
                          return "(" + val1::to_string() + ") / (" + val2::to_string() + ")";
01544
01545
01546
                  };
01547
01548
               public:
01552
                  template<typename val1, typename val2>
01553
                  struct val {
01555
                      using x = val1;
01557
                      using y = val2;
01559
                      using is_zero_t = typename val1::is_zero_t;
01561
                      static constexpr bool is_zero_v = val1::is_zero_t::value;
01562
01564
                      using ring_type = Ring;
                      using field_type = _FractionField<Ring>;
01565
01566
01569
                       static constexpr bool is_integer = std::is_same_v<val2, typename Ring::one>;
01570
01574
                      template<typename valueType>
01575
                      static constexpr valueType get() { return static_cast<valueType>(x::v) /
     static_cast<valueType>(y::v); }
01576
01579
                      static std::string to_string() {
                          return to_string_helper<val1, val2>::func();
01581
01582
01587
                      template<typename valueRing>
01588
                      static constexpr valueRing eval(const valueRing& v) {
                          return x::eval(v) / y::eval(v);
01589
01590
01591
01592
01594
                  using zero = val<typename Ring::zero, typename Ring::one>;
01596
                  using one = val<typename Ring::one, typename Ring::one>;
01597
01600
                  template<typename v>
01601
                  using inject_t = val<v, typename Ring::one>;
01602
01605
                  template<auto x>
                  using inject_constant_t = val<typename Ring::template inject_constant_t<x>, typename
01606
      Ring::one>;
```

```
01610
                  template<typename v>
01611
                  using inject_ring_t = val<typename Ring::template inject_ring_t<v>, typename Ring::one>;
01612
01614
                  using ring_type = Ring;
01615
01616
               private:
01617
                  template<typename v, typename E = void>
01618
                  struct simplify {};
01619
01620
                  // x = 0
                  template<typename v>
01621
01622
                  struct simplify<v, std::enable_if_t<v::x::is_zero_t::value» {
                      using type = typename _FractionField<Ring>::zero;
01623
01624
01625
                  // x != 0
01626
01627
                  template<typename v>
01628
                  struct simplify<v, std::enable_if_t<!v::x::is_zero_t::value» {</pre>
01629
01630
                      using _gcd = typename Ring::template gcd_t<typename v::x, typename v::y>;
01631
                      using newx = typename Ring::template div_t<typename v::x, _gcd>;
01632
                      using newy = typename Ring::template div_t<typename v::y, _gcd>;
01633
01634
                      using posx = std::conditional_t<
01635
                                           !Ring::template pos_v<newy>,
                                           typename Ring::template sub_t<typename Ring::zero, newx>,
01636
01637
                                           newx>;
01638
                      using posy = std::conditional_t<
01639
                                           !Ring::template pos_v<newy>,
01640
                                           typename Ring::template sub_t<typename Ring::zero, newy>,
01641
01642
                   public:
01643
                      using type = typename _FractionField<Ring>::template val<posx, posy>;
01644
01645
01646
               public:
01649
                  template<typename v>
01650
                  using simplify_t = typename simplify<v>::type;
01651
01652
01653
                  template<typename v1, typename v2>
01654
                  struct add {
01655
                   private:
01656
                      using a = typename Ring::template mul_t<typename v1::x, typename v2::y>;
01657
                      using b = typename Ring::template mul_t<typename v1::y, typename v2::x>;
                      using dividend = typename Ring::template add_t<a, b>;
using diviser = typename Ring::template mul_t<typename v1::y, typename v2::y>;
01658
01659
                      using g = typename Ring::template gcd_t<dividend, diviser>;
01660
01661
01662
                   public:
                      using type = typename _FractionField<Ring>::template simplify_t<val<dividend,
     diviser»;
01664
01665
01666
                  template<typename v>
01667
                  struct pos {
01668
                      using type = std::conditional t<
01669
                           (Ring::template pos_v<typename v::x> && Ring::template pos_v<typename v::y>) ||
01670
                           (!Ring::template pos_v<typename v::x> && !Ring::template pos_v<typename v::y>),
01671
                          std::true type,
01672
                          std::false_type>;
01673
                  };
01674
01675
                  template<typename v1, typename v2>
                  struct sub {
01676
                   private:
01677
01678
                      using a = typename Ring::template mul_t<typename v1::x, typename v2::y>;
                      using b = typename Ring::template mul_t<typename v1::y, typename v2::x>;
01679
                      using dividend = typename Ring::template sub_t<a, b>;
01681
                      using diviser = typename Ring::template mul_t<typename v1::y, typename v2::y>;
01682
                      using g = typename Ring::template gcd_t<dividend, diviser>;
01683
                   public:
01684
                      using type = typename FractionField<Ring>::template simplify t<val<dividend,
01685
01686
01687
01688
                  template<typename v1, typename v2>
01689
                  struct mul {
01690
                   private:
01691
                      using a = typename Ring::template mul_t<typename v1::x, typename v2::x>;
01692
                      using b = typename Ring::template mul_t<typename v1::y, typename v2::y>;
01693
                   public:
01694
01695
                      using type = typename _FractionField<Ring>::template simplify_t<val<a, b>;
01696
```

```
01698
                   template<typename v1, typename v2, typename E = void>
01699
                   struct div {};
01700
01701
                   template<typename v1, typename v2>
struct div<v1, v2, std::enable_if_t<!std::is_same<v2, typename</pre>
01702
      _FractionField<Ring>::zero>::value» {
01703
01704
                      using a = typename Ring::template mul_t<typename v1::x, typename v2::y>;
01705
                       using b = typename Ring::template mul_t<typename v1::y, typename v2::x>;
01706
                    public:
01707
01708
                       using type = typename _FractionField<Ring>::template simplify_t<val<a, b>;
01709
01710
01711
                   template<typename v1, typename v2> \,
01712
                   struct div<v1, v2, std::enable if t<
01713
                       std::is_same<zero, v1>::value && std::is_same<v2, zero>::value» {
                       using type = one;
01715
                   };
01716
01717
                   template<typename v1, typename v2>
01718
                   struct eq {
                       using type = std::conditional_t<
01719
01720
                                std::is_same<typename simplify_t<vl>::x, typename simplify_t<v2>::x>::value &&
01721
                                std::is_same<typename simplify_t<v1>::y, typename simplify_t<v2>::y>::value,
                            std::true_type,
01722
01723
                            std::false_type>;
01724
                   };
01725
01726
                   template<typename TL, typename E = void>
01727
                   struct vadd {};
01728
01729
                   template<typename TL>
01730
                   struct vadd<TL, std::enable_if_t<(TL::length > 1)  {
                       using head = typename TL::pop_front::type;
using tail = typename TL::pop_front::tail;
01731
01732
01733
                        using type = typename add<head, typename vadd<tail>::type>::type;
01734
01735
01736
                   template<typename TL>
                   struct vadd<TL, std::enable_if_t<(TL::length == 1)» {
    using type = typename TL::template at<0>;
01737
01738
01739
01740
01741
                   template<typename... vals>
01742
                   struct vmul {};
01743
01744
                   template<typename v1, typename... vals>
                   struct vmul<v1, vals...> {
01745
                       using type = typename mul<v1, typename vmul<vals...>::type>::type;
01746
01747
01748
01749
                   template<typename v1>
01750
                   struct vmul<v1> {
01751
                       using type = v1;
01752
01753
01754
01755
                   template<typename v1, typename v2, typename E = void>
01756
                   struct qt;
01757
01758
                   template<typename v1, typename v2>
01759
                   struct gt<v1, v2, std::enable_if_t<
01760
                        (eq<v1, v2>::type::value)
01761
01762
                       using type = std::false_type;
01763
                   };
01764
01765
                   template<typename v1, typename v2>
01766
                   struct gt<v1, v2, std::enable_if_t<
01767
                        (!eq<v1, v2>::type::value) &&
01768
                        (!pos<v1>::type::value) && (!pos<v2>::type::value)
01769
01770
                       using type = typename gt<
01771
                           typename sub<zero, v1>::type, typename sub<zero, v2>::type
01772
                        >::type;
01773
01774
01775
                   template<typename v1, typename v2>
01776
                   struct gt<v1, v2, std::enable_if_t<
(!eq<v1, v2>::type::value) &&
01777
01778
                        (pos<v1>::type::value) && (!pos<v2>::type::value)
01779
01780
                       using type = std::true_type;
01781
                   };
01782
```

```
template<typename v1, typename v2>
                   struct gt<v1, v2, std::enable_if_t<
(!eq<v1, v2>::type::value) &&
01784
01785
                       (!pos<v1>::type::value) && (pos<v2>::type::value)
01786
01787
01788
                       using type = std::false type;
01789
                   };
01790
01791
                   template<typename v1, typename v2>
                   struct gt<v1, v2, std::enable_if_t<
(!eq<v1, v2>::type::value) &&
01792
01793
01794
                       (pos<v1>::type::value) && (pos<v2>::type::value)
01795
01796
                       using type = typename Ring::template gt_t<
01797
                            typename Ring::template mul_t<v1::x, v2::y>,
01798
                           typename Ring::template mul_t<v2::y, v2::x>
01799
01800
                   };
01801
01802
                public:
01804
                   template<typename v1, typename v2>
01805
                   using add_t = typename add<v1, v2>::type;
01807
                   template<typename v1, typename v2>
01808
                   using mod t = zero;
01812
                   template<typename v1, typename v2>
01813
                   using gcd_t = v1;
                   template<typename... vs>
01816
01817
                   using vadd_t = typename vadd<vs...>::type;
01820
                   template<typename... vs>
                   using vmul_t = typename vmul<vs...>::type;
01821
01823
                   template<typename v1, typename v2>
01824
                   using sub_t = typename sub<v1, v2>::type;
01826
                   template<typename v1, typename v2>
01827
                   using mul_t = typename mul<v1, v2>::type;
01829
                   template<typename v1, typename v2>
01830
                   using div_t = typename div<v1, v2>::type;
01832
                   template<typename v1, typename v2>
                   using eq_t = typename eq<v1, v2>::type;
01835
                   template<typename v1, typename v2>
01836
                   static constexpr bool eq_v = eq<v1, v2>::type::value;
01838
                   template<typename v1, typename v2>
                   using gt_t = typename gt<v1, v2>::type;
01839
                   template<typename v1, typename v2>
static constexpr bool gt_v = gt<v1, v2>::type::value;
01841
01842
01844
                   template<typename v1>
01845
                   using pos_t = typename pos<v1>::type;
01847
                   template<typename v>
01848
                   static constexpr bool pos_v = pos_t<v>::value;
01849
               };
01850
               template<typename Ring, typename E = void>
01852
               requires IsEuclideanDomain<Ring>
01853
               struct FractionFieldImpl {};
01854
               // fraction field of a field is the field itself
01855
               template<typename Field>
01856
               requires IsEuclideanDomain<Field>
01858
               struct FractionFieldImpl<Field, std::enable_if_t<Field::is_field» {</pre>
01859
                   using type = Field;
01860
                   template < typename v >
01861
                   using inject_t = v;
01862
               };
01863
               // fraction field of a ring is the actual fraction field
01864
01865
               template<typename Ring>
01866
               requires IsEuclideanDomain<Ring>
               struct FractionFieldImpl<Ring, std::enable_if_t<!Ring::is_fieldw {
    using type = _FractionField<Ring>;
01867
01868
01869
               };
          } // namespace internal
01870
01871
01872
          template<typename Ring>
01873
          requires IsEuclideanDomain<Ring>
          using FractionField = typename internal::FractionFieldImpl<Ring>::type;
01874
01875 }
         // namespace aerobus
01876
01877 // short names for common types
01878 namespace aerobus {
01880
          using q32 = FractionField<i32>;
          using fpq32 = FractionField<polynomial<q32»;
01882
          using q64 = FractionField<i64>;
01884
          using pi64 = polynomial<i64>;
01886
          using pq64 = polynomial<q64>;
01888
          using fpq64 = FractionField<polynomial<q64»;
01890
01895
          template<typename Ring, typename v1, typename v2>
          using makefraction_t = typename FractionField<Ring>::template val<v1, v2>;
01896
01897
```

```
template<typename Ring, typename v1, typename v2>
          using addfractions_t = typename FractionField<Ring>::template add_t<v1, v2>;
01903
01908
          template<typename Ring, typename v1, typename v2>
         using mulfractions_t = typename FractionField<Ring>::template mul_t<v1, v2>;
01909
01910 }
        // namespace aerobus
01911
01912 // taylor series and common integers (factorial, bernouilli...) appearing in taylor coefficients
01913 namespace aerobus {
01914
       namespace internal {
01915
             template<typename T, size_t x, typename E = void>
              struct factorial {};
01916
01917
01918
              template<typename T, size_t x>
01919
              struct factorial<T, x, std::enable_if_t<(x > 0)» {
01920
              private:
01921
                  template<typename, size_t, typename>
01922
                  friend struct factorial:
              public:
01923
01924
                 using type = typename T::template mul_t<typename T::template val<x>, typename factorial<T,
     x - 1>::type>;
01925
                  static constexpr typename T::inner_type value = type::template get<typename
     T::inner_type>();
01926
            };
01927
01928
             template<typename T>
01929
             struct factorial<T, 0> {
01930
              public:
01931
                  using type = typename T::one;
01932
                  static constexpr typename T::inner_type value = type::template get<typename
     T::inner_type>();
01933
              };
01934
          } // namespace internal
01935
01939
          template<typename T, size_t i>
01940
          using factorial_t = typename internal::factorial<T, i>::type;
01941
01945
          template<typename T, size_t i>
          inline constexpr typename T::inner_type factorial_v = internal::factorial<T, i>::value;
01946
01947
01948
          namespace internal {
01949
              template<typename T, size_t k, size_t n, typename E = void>
01950
              struct combination_helper {};
01951
01952
              template<typename T, size_t k, size_t n>
01953
              struct combination_helper<T, k, n, std::enable_if_t<(n >= 0 && k <= (n / 2) && k > 0)» {
01954
                  using type = typename FractionField<T>::template mul_t<</pre>
01955
                      typename combination_helper<T, k - 1, n - 1>::type,
01956
                      makefraction_t<T, typename T::template val<n>, typename T::template val<k>>;
01957
              };
01958
01959
              template<typename T, size_t k, size_t n>
01960
              struct combination_helper<T, k, n, std::enable_if_t<(n >= 0 && k > (n / 2) && k > 0)» {
01961
                  using type = typename combination_helper<T, n - k, n>::type;
01962
01963
01964
              template<typename T, size t n>
              struct combination_helper<T, 0, n> {
01965
                  using type = typename FractionField<T>::one;
01966
01967
01968
              template<typename T, size_t k, size_t n>
01969
01970
              struct combination {
01971
                  using type = typename internal::combination_helper<T, k, n>::type::x;
01972
                  static constexpr typename T::inner_type value
01973
                              internal::combination_helper<T, k, n>::type::template get<typename</pre>
     T::inner_type>();
01974
            };
// namespace internal
01975
01976
01979
          template<typename T, size_t k, size_t n>
01980
          using combination_t = typename internal::combination<T, k, n>::type;
01981
          template<typename T, size_t k, size_t n>
inline constexpr typename T::inner_type combination_v = internal::combination<T, k, n>::value;
01986
01987
01988
01989
          namespace internal {
01990
              template<typename T, size_t m>
01991
              struct bernouilli;
01992
01993
              template<typename T, typename accum, size t k, size t m>
01994
              struct bernouilli helper {
                  using type = typename bernouilli_helper<
01995
01996
01997
                      addfractions_t<T,
                          accum,
01998
                          mulfractions t<T,
01999
02000
                              makefraction t<T.
```

```
02001
                                   combination_t<T, k, m + 1>,
02002
                                   typename T::one>,
02003
                               typename bernouilli<T, k>::type
02004
02005
                      >,
k + 1,
02006
02007
                      m>::type;
02008
02009
              template<typename T, typename accum, size_t m>
struct bernouilli_helper<T, accum, m, m> {
02010
02011
02012
                  using type = accum;
02013
02014
02015
02016
02017
              template<typename T, size_t m>
02018
              struct bernouilli {
02019
                  using type = typename FractionField<T>::template mul_t<</pre>
02020
                       typename internal::bernouilli_helper<T, typename FractionField<T>::zero, 0, m>::type,
02021
                       makefraction_t<T,
02022
                       typename T::template val<static_cast<typename T::inner_type>(-1)>,
02023
                      typename T::template val<static_cast<typename T::inner_type>(m + 1)>
02024
02025
                  >;
02026
                  template<typename floatType>
02027
02028
                   static constexpr floatType value = type::template get<floatType>();
02029
              };
02030
02031
              template<tvpename T>
02032
              struct bernouilli<T, 0> {
02033
                  using type = typename FractionField<T>::one;
02034
02035
                  template<typename floatType>
                  static constexpr floatType value = type::template get<floatType>();
02036
02037
              };
          } // namespace internal
02038
02039
02043
          template<typename T, size_t n>
02044
          using bernouilli_t = typename internal::bernouilli<T, n>::type;
02045
02050
          template<typename FloatType, typename T, size t n >
02051
          inline constexpr FloatType bernouilli_v = internal::bernouilli<T, n>::template value<FloatType>;
02052
02053
          namespace internal {
02054
             template<typename T, int k, typename E = void>
02055
              struct alternate { };
02056
02057
              template<tvpename T, int k>
02058
              struct alternate<T, k, std::enable_if_t<k % 2 == 0» {
02059
                  using type = typename T::one;
02060
                  static constexpr typename T::inner_type value = type::template get<typename
     T::inner_type>();
02061
              };
02062
02063
              template<typename T, int k>
02064
              struct alternate<T, k, std::enable_if_t<k % 2 != 0» {</pre>
02065
                 using type = typename T::template sub_t<typename T::zero, typename T::one>;
02066
                  static constexpr typename T::inner_type value = type::template get<typename
     T::inner_type>();
02067
              };
02068
          } // namespace internal
02069
02072
          template<typename T, int k>
02073
          using alternate_t = typename internal::alternate<T, k>::type;
02074
02075
          namespace internal {
              template<typename T, int n, int k, typename E = void>
02076
              struct stirling_helper {};
02078
02079
              template<typename T>
02080
              struct stirling_helper<T, 0, 0> {
02081
                  using type = typename T::one;
02082
              };
02083
02084
              template<typename T, int n>
02085
              struct stirling_helper<T, n, 0, std::enable_if_t<(n > 0)» {
02086
                  using type = typename T::zero;
02087
02088
02089
              template<typename T, int n>
02090
              struct stirling_helper<T, 0, n, std::enable_if_t<(n > 0)» {
02091
                  using type = typename T::zero;
02092
02093
02094
              template<typename T, int n, int k>
```

```
struct stirling_helper<T, n, k, std::enable_if_t<(k > 0) && (n > 0)» {
02096
                  using type = typename T::sub_t<
02097
                                     typename stirling_helper<T, n-1, k-1>::type,
02098
                                     typename T::mul_t<
02099
                                         typename T::inject_constant_t<n-1>,
                                         typename stirling_helper<T, n-1, k>::type
02100
02101
02102
02103
          } // namespace internal
02104
02109
          template<typename T, int n, int k>
02110
          using stirling_signed_t = typename internal::stirling_helper<T, n, k>::type;
02111
02116
          template<typename T, int n, int k>
02117
          static constexpr typename T::inner_type stirling_signed_v = internal::stirling_helper<T, n,
      k>::type::v;
02118
02121
          template<typename T, size t k>
          inline constexpr typename T::inner_type alternate_v = internal::alternate<T, k>::value;
02122
02123
02124
          namespace internal {
02125
               template<typename T, auto p, auto n, typename E = void>
02126
               struct pow {};
02127
02128
               template<typename T, auto p, auto n>
               struct pow<T, p, n, std::enable_if_t<(n > 0 && n % 2 == 0)» {
   using type = typename T::mul_t
02129
02130
02131
                        typename pow<T, p, n/2>::type,
02132
                        typename pow<T, p, n/2>::type
02133
                   >;
02134
              };
02135
02136
               template<typename T, auto p, auto n>
02137
               struct pow<T, p, n, std::enable_if_t<(n % 2 == 1)» {
                   using type = typename T::mul_t<
    typename T::inject_constant_t<p>,
02138
02139
02140
                       typename T::mul_t<
                            typename pow<T, p, n/2>::type,
02141
02142
                            typename pow<T, p, n/2>::type
02143
02144
                   >;
02145
              };
02146
02147
               template<typename T, auto p>
02148
               struct pow<T, p, 0> { using type = typename T::one; };
02149
          } // namespace internal
02150
02155
          template<typename T, auto p, auto n>
          using pow_t = typename internal::pow<T, p, n>::type;
02156
02157
02162
          template<typename T, auto p, auto n>
02163
          static constexpr T::inner_type pow_v = internal::pow<T, p, n>::type::v;
02164
02165
          namespace internal {
02166
               template<typename, template<typename, size_t> typename, class>
02167
               struct make taylor impl;
02168
02169
               template<typename T, template<typename, size_t> typename coeff_at, size_t... Is>
02170
               struct make_taylor_impl<T, coeff_at, std::integer_sequence<size_t, Is...» {</pre>
02171
                  using type = typename polynomial<FractionField<T»::template val<typename coeff_at<T,
      Is>::type...>;
02172
              };
02173
          }
02174
02179
          template<typename T, template<typename, size_t index> typename coeff_at, size_t deg>
02180
          using taylor = typename internal::make_taylor_impl<</pre>
02181
02182
               coeff at.
02183
               internal::make_index_sequence_reverse<deg + 1>::type;
02184
02185
          namespace internal {
02186
               template<typename T, size_t i>
02187
               struct exp_coeff {
                   using type = makefraction_t<T, typename T::one, factorial_t<T, i»;</pre>
02188
02189
02190
02191
               template<typename T, size_t i, typename E = void>
02192
               struct sin_coeff_helper {};
02193
02194
               template<typename T. size t i>
               struct sin_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {
    using type = typename FractionField<T>::zero;
02195
02196
02197
02198
02199
               template<typename T, size_t i>
               struct sin_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {
    using type = makefraction_t<T, alternate_t<T, i / 2>, factorial_t<T, i»;</pre>
02200
02201
```

```
02202
               };
02203
02204
               template<typename T, size_t i>
02205
               struct sin_coeff {
02206
                   using type = typename sin_coeff_helper<T, i>::type;
02207
02208
02209
               template<typename T, size_t i, typename E = void>
02210
               struct sh_coeff_helper {};
02211
02212
               template<typename T, size_t i>
               struct sh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0  {
02213
02214
                   using type = typename FractionField<T>::zero;
02215
02216
               template<typename T, size_t i>
02217
               struct sh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {
02218
02219
                  using type = makefraction_t<T, typename T::one, factorial_t<T, i»;
02221
02222
               template<typename T, size_t i>
02223
               struct sh_coeff {
02224
                  using type = typename sh_coeff_helper<T, i>::type;
02225
02226
02227
               template<typename T, size_t i, typename E = void>
02228
               struct cos_coeff_helper {};
02229
02230
               template<typename T, size_t i>
               struct cos_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {
    using type = typename FractionField<T>::zero;
02231
02232
02233
02234
02235
               template<typename T, size_t i>
               struct cos_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {
   using type = makefraction_t<T, alternate_t<T, i / 2>, factorial_t<T, i»;</pre>
02236
02237
02238
02240
               template<typename T, size_t i>
02241
               struct cos_coeff {
02242
                   using type = typename cos_coeff_helper<T, i>::type;
02243
02244
02245
               template<typename T, size_t i, typename E = void>
02246
               struct cosh_coeff_helper {};
02247
02248
               template<typename T, size_t i>
               struct cosh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {
    using type = typename FractionField<T>::zero;
02249
02250
02251
02253
               template<typename T, size_t i>
02254
               struct cosh\_coeff\_helper<T, i, std::enable\_if\_t<(i & 1) == 0» {
02255
                  using type = makefraction_t<T, typename T::one, factorial_t<T, i»;
02256
02257
02258
               template<typename T, size_t i>
02259
               struct cosh_coeff {
02260
                   using type = typename cosh_coeff_helper<T, i>::type;
02261
02262
02263
               template<typename T, size_t i>
02264
               struct geom_coeff { using type = typename FractionField<T>::one; };
02265
02266
02267
               template<typename T, size_t i, typename E = void>
02268
               struct atan_coeff_helper;
02269
02270
               template<tvpename T, size t i>
               struct atan_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {
02272
                  using type = makefraction_t<T, alternate_t<T, i / 2>, typename T::template val<i>;;
02273
02274
02275
               template<typename T, size_t i>
02276
               struct atan_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {</pre>
02277
                   using type = typename FractionField<T>::zero;
02278
02279
02280
               template<typename T, size_t i>
               struct atan_coeff { using type = typename atan_coeff_helper<T, i>::type; };
02281
02282
02283
               template<typename T, size_t i, typename E = void>
02284
               struct asin_coeff_helper;
02285
               template<typename T, size_t i>
struct asin_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {</pre>
02286
02287
02288
                   using type = makefraction t < T.
```

```
factorial_t<T, i - 1>,
02290
                        typename T::template mul_t<
02291
                            typename T::template val<i>,
                            T::template mul_t<
    pow_t<T, 4, i / 2>,
    pow<T, factorial<T, i / 2>::value, 2
02292
02293
02294
02295
02296
02297
02298
               };
02299
02300
               template<typename T, size_t i>
02301
               struct asin_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {</pre>
02302
                   using type = typename FractionField<T>::zero;
02303
02304
02305
               template<typename T, size_t i>
02306
               struct asin coeff {
02307
                   using type = typename asin_coeff_helper<T, i>::type;
02308
               };
02309
02310
               template<typename T, size_t i>
02311
               struct lnp1_coeff {
02312
                   using type = makefraction_t<T,
02313
                        alternate_t<T, i + 1>,
02314
                        typename T::template val<i>;;
02315
02316
02317
               template<typename T>
02318
               struct lnpl_coeff<T, 0> { using type = typename FractionField<T>::zero; };
02319
02320
               template<typename T, size_t i, typename E = void>
02321
               struct asinh_coeff_helper;
02322
               template<typename T, size_t i>
struct asinh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {</pre>
02323
02324
02325
                   using type = makefraction_t<T,
                        typename T::template mul_t<
02326
02327
                            alternate_t<T, i / 2>,
02328
                            factorial_t<T, i - 1>
02329
02330
                        typename T::template mul_t<
02331
                            T::template mul_t<
02332
                                typename T::template val<i>,
02333
                                pow_t<T, (factorial<T, i / 2>::value), 2>
02334
02335
                            pow_t<T, 4, i / 2>
02336
02337
                   >;
02338
               };
02340
               template<typename T, size_t i>
02341
               struct asinh\_coeff\_helper<T, i, std::enable\_if\_t<(i & 1) == 0» {
02342
                  using type = typename FractionField<T>::zero;
02343
02344
02345
               template<typename T, size_t i>
02346
               struct asinh_coeff {
02347
                   using type = typename asinh_coeff_helper<T, i>::type;
02348
02349
               template<typename T, size_t i, typename E = void>
02350
02351
               struct atanh_coeff_helper;
02352
02353
               template<typename T, size_t i>
02354
               struct atanh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {
02355
                   // 1/i
02356
                   using type = typename FractionField<T>:: template val<
02357
                       typename T::one,
02358
                       typename T::template val<static_cast<typename T::inner_type>(i)»;
02359
02360
               template<typename T, size_t i>
struct atanh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {</pre>
02361
02362
                   using type = typename FractionField<T>::zero;
02363
02364
02365
02366
               template<typename T, size_t i>
               struct atanh_coeff {
02367
                   using type = typename asinh_coeff_helper<T, i>::type;
02368
02369
02370
02371
               template<typename T, size_t i, typename E = void>
02372
               struct tan_coeff_helper;
02373
               template<typename T, size_t i>
struct tan_coeff_helper<T, i, std::enable_if_t<(i % 2) == 0» {</pre>
02374
02375
```

```
using type = typename FractionField<T>::zero;
02377
02378
02379
              template<typename T, size_t i>
              struct tan_coeff_helper<T, i, std::enable_if_t<(i \% 2) != 0» {
02380
02381
              private:
02382
02383
                   using _4p = typename FractionField<T>::template inject_t<pow_t<T, 4, (i + 1) / 2»;
02384
                   // 4^{((i+1)/2)} - 1
02385
                   using _4pm1 = typename FractionField<T>::template sub_t<_4p, typename
      FractionField<T>::one>;
02386
                  // (-1)^((i-1)/2)
02387
                   using altp = typename FractionField<T>::template inject_t<alternate_t<T, (i - 1) / 2»;
02388
                   using dividend = typename FractionField<T>::template mul_t<
02389
                       altp,
02390
                       FractionField<T>::template mul_t<
02391
                        _4p,
                      FractionField<T>::template mul_t<
02392
02393
                       _4pm1,
02394
                       bernouilli_t<T, (i + 1)>
02395
02396
02397
                  >:
              public:
02398
02399
                  using type = typename FractionField<T>::template div_t<dividend,
02400
                      typename FractionField<T>::template inject_t<factorial_t<T, i + 1>>;
02401
02402
02403
              template<typename T, size_t i>
02404
              struct tan_coeff {
02405
                  using type = typename tan_coeff_helper<T, i>::type;
02406
02407
02408
              template<typename T, size_t i, typename E = void>
02409
              struct tanh_coeff_helper;
02410
02411
              template<typename T, size_t i>
              struct tanh_coeff_helper<T, i, std::enable_if_t<(i % 2) == 0» {
02412
02413
                  using type = typename FractionField<T>::zero;
02414
02415
02416
              template<typename T, size_t i>
              struct tanh_coeff_helper<T, i, std::enable_if_t<(i % 2) != 0» {</pre>
02417
02418
              private:
02419
                  using _4p = typename FractionField<T>::template inject_t<pow_t<T, 4, (i + 1) / 2»;
02420
                   using _4pm1 = typename FractionField<T>::template sub_t<_4p, typename
      FractionField<T>::one>;
02421
                  using dividend =
                      typename FractionField<T>::template mul t<
02422
02423
                       4p.
02424
                      typename FractionField<T>::template mul_t<
02425
                       _4pm1,
02426
                      bernouilli_t<T, (i + 1)>
02427
02428
                      >::type;
02429
              public:
                  using type = typename FractionField<T>::template div_t<dividend,
02430
02431
                       FractionField<T>::template inject_t<factorial_t<T, i + 1>>;
02432
              };
02433
02434
              template<typename T, size_t i>
02435
              struct tanh coeff {
02436
                  using type = typename tanh_coeff_helper<T, i>::type;
02437
02438
          } // namespace internal
02439
02443
          template<typename T, size_t deg>
using exp = taylor<T, internal::exp_coeff, deg>;
02444
02445
02449
          template<typename T, size_t deg>
02450
          using expm1 = typename polynomial<FractionField<T>::template sub_t<</pre>
02451
              exp<T, deq>
02452
              typename polynomial<FractionField<T>::one>;
02453
02457
          template<typename T, size_t deg>
02458
          using lnp1 = taylor<T, internal::lnp1_coeff, deg>;
02459
02463
          template<typename T, size_t deg>
02464
          using atan = taylor<T, internal::atan_coeff, deg>;
02465
          template<typename T, size_t deg>
using sin = taylor<T, internal::sin_coeff, deg>;
02469
02470
02471
02475
          template<typename T, size_t deg>
02476
          using sinh = taylor<T, internal::sh_coeff, deg>;
02477
02481
          template<typename T, size t deg>
```

```
02482
                 using cosh = taylor<T, internal::cosh_coeff, deg>;
02483
02487
                 template<typename T, size_t deg>
02488
                 using cos = taylor<T, internal::cos_coeff, deg>;
02489
                 template<typename T, size_t deg>
02493
                 using geometric_sum = taylor<T, internal::geom_coeff, deg>;
02494
02495
                 template<typename T, size_t deg>
02499
02500
                 using asin = taylor<T, internal::asin_coeff, deg>;
02501
02505
                 template<typename T, size_t deg>
02506
                 using asinh = taylor<T, internal::asinh_coeff, deg>;
02507
02511
                 template<typename T, size_t deg>
02512
                 using atanh = taylor<T, internal::atanh_coeff, deg>;
02513
                 template<typename T, size_t deg>
using tan = taylor<T, internal::tan_coeff, deg>;
02517
02518
02519
02523
                 template<typename T, size_t deg>
02524
                 using tanh = taylor<T, internal::tanh_coeff, deg>;
02525 }
              // namespace aerobus
02526
02527 // continued fractions
02528 namespace aerobus {
02531
                 template<int64_t... values>
02532
                 struct ContinuedFraction {};
02533
02536
                 template<int64 t a0>
02537
                 struct ContinuedFraction<a0> {
02538
                        using type = typename q64::template inject_constant_t<a0>;
02539
                        static constexpr double val = type::template get<double>();
02540
02541
02545
                template<int64_t a0, int64_t... rest>
02546
                struct ContinuedFraction<a0, rest...> {
                        using type = q64::template add_t<
02547
02548
                                      typename q64::template inject_constant_t<a0>,
02549
                                      typename q64::template div_t<
02550
                                             typename q64::one,
                                            typename ContinuedFraction<rest...>::type
02551
02552
                                      »:
02553
                        static constexpr double val = type::template get<double>();
02554
                };
02555
02560
                using PI_fraction =
          ContinuedFraction<3, 7, 15, 1, 292, 1, 1, 1, 2, 1, 3, 1, 14, 2, 1, 1, 2, 2, 2, 2, 1>;
02563
                using E fraction =
          ContinuedFraction<2, 1, 2, 1, 1, 4, 1, 1, 6, 1, 1, 8, 1, 1, 10, 1, 1, 12, 1, 1, 14, 1, 1>;
02565
                using SQRT2_fraction
          02567
                using SQRT3_fraction =
          ContinuedFraction<1, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 
          // NOLINT
02568 } // namespace aerobus
02569
02570 // known polynomials
02571 namespace aerobus {
02572
                // CChebyshev
02573
                 namespace internal {
02574
                        template<int kind, int deg>
                        struct chebyshev_helper {
02576
                              using type = typename pi64::template sub_t<
02577
                                      typename pi64::template mul_t<
02578
                                     typename pi64::template mul_t<
02579
                                     pi64::inject_constant_t<2>,
                                     typename pi64::X
02580
02581
                                      typename chebyshev_helper<kind, deg - 1>::type
02583
02584
                                      typename chebyshev_helper<kind, deg - 2>::type
02585
                               >;
02586
                        };
02587
02588
                        template<>
02589
                        struct chebyshev_helper<1, 0> {
02590
                              using type = typename pi64::one;
02591
                        };
02592
02593
                        template<>
02594
                        struct chebyshev_helper<1, 1> {
02595
                              using type = typename pi64::X;
02596
                        };
02597
02598
                        template<>
02599
                        struct chebyshev helper<2, 0> {
```

```
using type = typename pi64::one;
02601
02602
02603
              template<>
02604
              struct chebyshev_helper<2, 1> {
                  using type = typename pi64::template mul_t<
02605
                      typename pi64::inject_constant_t<2>,
02606
02607
                      typename pi64::X>;
02608
02609
          } // namespace internal
02610
          // Laguerre
02611
02612
          namespace internal {
02613
              template<size_t deg>
02614
              struct laguerre_helper {
02615
                  // Lk = (1 / k) * ((2 * k - 1 - x) * 1km1 - (k - 2)Lkm2)
02616
                  using lnm2 = typename laguerre_helper<deg - 2>::type;
02617
                  using lnm1 = typename laguerre_helper<deg - 1>::type;
02618
02619
                     -x + 2k-1
02620
                  using p = typename pq64::template val<
02621
                      typename q64::template inject_constant_t<-1>,
02622
                      typename q64::template inject_constant_t<2 * deg - 1»;</pre>
                  // 1/n
02623
02624
                  using factor = typename pq64::template inject_ring_t<
                      q64::val<typename i64::one, typename i64::template inject_constant_t<deg>>;
02625
02626
02627
               public:
02628
                  using type = typename pq64::template mul_t <</pre>
02629
                      factor.
02630
                       typename pq64::template sub_t<
02631
                          typename pq64::template mul_t<
02632
                              p,
02633
                               lnm1
02634
                          typename pq64::template mul_t<
02635
02636
                               typename pq64::template inject_constant_t<deg-1>,
02637
                               1nm2
02638
02639
02640
                  >;
02641
02642
              }:
02643
02644
              template<>
02645
              struct laguerre_helper<0> {
02646
                  using type = typename pq64::one;
02647
              };
02648
02649
              template<>
02650
              struct laguerre_helper<1> {
02651
                  using type = typename pq64::template sub_t<typename pq64::one, typename pq64::X>;
02652
02653
          } // namespace internal
02654
02655
          namespace known polynomials {
02657
              enum hermite_kind {
02658
                  probabilist,
02659
                  physicist
02660
              };
02661
          }
02662
02663
          namespace internal {
             template<size_t deg, known_polynomials::hermite_kind kind>
02664
02665
              struct hermite_helper {};
02666
02667
              template<size_t deg>
              struct hermite_helper<deg, known_polynomials::hermite_kind::probabilist> {
02668
02669
               private:
02670
                  using hnm1 = typename hermite_helper<deg - 1,</pre>
      known_polynomials::hermite_kind::probabilist>::type;
02671
                  using hnm2 = typename hermite_helper<deg - 2,
      known_polynomials::hermite_kind::probabilist>::type;
02672
02673
               public:
02674
                  using type = typename pi64::template sub_t<
02675
                      typename pi64::template mul_t<typename pi64::X, hnm1>,
02676
                       typename pi64::template mul_t<
02677
                           typename pi64::template inject_constant_t<deg - 1>,
02678
                          hnm2
02679
02680
                  >;
02681
02682
02683
              template<size_t deg>
02684
              struct hermite_helper<deg, known_polynomials::hermite_kind::physicist> {
02685
               private:
```

```
02686
                             using hnm1 = typename hermite_helper<deg - 1,
          known_polynomials::hermite_kind::physicist>::type;
02687
                             using hnm2 = typename hermite_helper<deg - 2,
         known_polynomials::hermite_kind::physicist>::type;
02688
02689
                        public:
02690
                             using type = typename pi64::template sub_t<</pre>
                                     // 2X Hn-1
02691
02692
                                    typename pi64::template mul_t<
02693
                                          typename pi64::val<typename i64::template inject_constant_t<2>,
                                          typename i64::zero>, hnm1>,
02694
02695
02696
                                    typename pi64::template mul t<
                                           typename pi64::template inject_constant_t<2*(deg - 1)>,
02697
02698
                                          hnm2
02699
02700
                             >;
02701
                      };
02702
02703
                       template<>
02704
                       struct hermite_helper<0, known_polynomials::hermite_kind::probabilist> {
02705
                             using type = typename pi64::one;
02706
                       };
02707
02708
                       template<>
02709
                      struct hermite_helper<1, known_polynomials::hermite_kind::probabilist> {
02710
                             using type = typename pi64::X;
02711
02712
02713
                       template<>
02714
                      struct hermite_helper<0, known_polynomials::hermite_kind::physicist> {
02715
                            using type = typename pi64::one;
02716
02717
02718
                       template<>
02719
                       struct hermite_helper<1, known_polynomials::hermite_kind::physicist> {
02720
                             // 2X
                             using type = typename pi64::template val<typename i64::template inject_constant_t<2>,
         typename i64::zero>;
02722
                       };
02723
                } // namespace internal
02724
02725
                namespace known polynomials {
02728
                       template <size_t deg>
02729
                      using chebyshev_T = typename internal::chebyshev_helper<1, deg>::type;
02730
02733
                       template <size_t deg>
02734
                       using chebyshev_U = typename internal::chebyshev_helper<2, deg>::type;
02735
02738
                       template <size t deg>
02739
                      using laguerre = typename internal::laguerre_helper<deg>::type;
02740
02743
02744
                       using hermite_prob = typename internal::hermite_helper<deg, hermite_kind::probabilist>::type;
02745
02748
                       template <size t deg>
02749
                       using hermite_phys = typename internal::hermite_helper<deg, hermite_kind::physicist>::type;
02750
                     // namespace known_polynomials
02751 } // namespace aerobus
02752
02753
02754 #ifdef AEROBUS_CONWAY_IMPORTS
02755 template<int p, int n> 02756 struct ConwayPolynomial;
02757
02758 #define ZPZV ZPZ::template val
02759 #define POLYV aerobus::polynomial<ZPZ>::template val
02760 template<> struct ConwayPolynomial<2, 1> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
         ZPZV<1»: }: // NOLINT
02761 template<> struct ConwayPolynomial<2, 2> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
          ZPZV<1>, ZPZV<1»; }; // NOLINT</pre>
02762 template<> struct ConwayPolynomial<2, 3> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
          ZPZV<0>, ZPZV<1>, ZPZV<1»; }; // NOLINT</pre>
02763 template<> struct ConwayPolynomial<2, 4> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
          ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1»; }; // NOLINT</pre>
02764 template<> struct ConwayPolynomial<2, 5> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
          ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<1»; }; // NOLINT</pre>
02765 template<> struct ConwayPolynomial<2, 6> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<1>; // NOLINT

02766 template<> struct ConwayPolynomial<2, 7> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
         ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>; // NOLINT
02767 template<> struct ConwayPolynomial<2, 8> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<2>, ZPZV<1>, ZPZV<2>; using type = POLYV<ZPZV<1>, ZPZV<1>, ZPZV<2>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<1>; ); // NOLINT

02769 template<> struct ConwayPolynomial<2, 10> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1 , ZPZV<1 ,
```

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NOLINT
 02770 template<> struct ConwayPolynomial<2, 11> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>; };
                               // NOLINT
 02771 template<> struct ConwayPolynomial<2, 12> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1 , ZPZ
                              ZPZV<1»; }; // NOLINT</pre>
 02772 template<> struct ConwayPolynomial<2, 13> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<0>,
                              ZPZV<1>, ZPZV<1»; }; // NOLINT</pre>
02773 template<> struct ConwayPolynomial<2, 14> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<1>,
                              ZPZV<0>, ZPZV<0>, ZPZV<1»; }; // NOLINT</pre>
 02774 template<> struct ConwayPolynomial<2, 15> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<1>, ZPZV<1
, ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZV<1 , ZPZ
ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<1»; }; // NOLINT

02775 template<> struct ConwayPolynomial<2, 16> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1
02776 template<> struct ConwayPolynomial<2, 17> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>
02777 template<> struct ConwayPolynomial<2, 18> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1</pre>
02778 template<> struct ConwayPolynomial<2, 19> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
                               ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>,
                                                                                                                                                                                                                                                                                                                                                                                                                                         ZPZV<0>, ZPZV<0>,
                              02779 template<> struct ConwayPolynomial<2, 20> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1
02780 template<> struct ConwayPolynomial<3, 1> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                               ZPZV<1»; }; // NOLINT</pre>
 02781 template<> struct ConwayPolynomial<3, 2> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                              ZPZV<2>, ZPZV<2»; }; // NOLINT</pre>
 02782 template<> struct ConwayPolynomial<3, 3> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<2>, ZPZV<1»; }; // NOLINT</pre>
 02783 template<> struct ConwayPolynomial<3, 4> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                              ZPZV<2>, ZPZV<0>, ZPZV<0>, ZPZV<2»; };</pre>
                                                                                                                                                                                                                             // NOLINT
 02784 template<> struct ConwayPolynomial<3, 5> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<1»; }; // NOLINT</pre>
 02785 template<> struct ConwayPolynomial<3, 6> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<2>, ZPZV<0>, ZPZV<1>, ZPZV<2>, ZPZV<2>, ZPZV<2»; }; // NOLINT
02786 template<> struct ConwayPolynomial<3, 7> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<1»; }; // NOLINT

02787 template<> struct ConwayPolynomial<3, 8> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                              \texttt{ZPZV} < 0>, \ \texttt{ZPZV} < 0>, \ \texttt{ZPZV} < 2>, \ \texttt{ZPZV} < 1>, \ \texttt{ZPZV} < 0>, \ \texttt{ZPZV} < 2>, \ \texttt{ZPZV} < 2>, \ \texttt{ZPZV} < 2>; \ \ \}; \ \ // \ \texttt{NOLINT} 
 02788 template<> struct ConwayPolynomial<3, 9> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<1>; }; // NOLINT
 02789 template<> struct ConwayPolynomial<3, 10> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<2»; };</pre>
                              NOLINT
 02790 template<> struct ConwayPolynomial<3, 11> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1»; };</pre>
                               // NOLINT
02791 template<> struct ConwayPolynomial<3, 12> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                               ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1 , ZPZ
                               ZPZV<2»: }: // NOLINT
 02792 template<> struct ConwayPolynomial<3, 13> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>
                              ZPZV<2>, ZPZV<1»; }; // NOLINT</pre>
02793 template<> struct ConwayPolynomial<3, 14> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<1>, ZPZV<1>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<3, ZPZV<3, ZPZV<4>, ZPZV<5, ZPZV<5
                               ZPZV<1>, ZPZV<0>, ZPZV<2»; }; // NOLINT</pre>
 02794 template<> struct ConwayPolynomial<3, 15> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                               \texttt{ZPZV} < \texttt{0} >, \ \texttt{Z
ZPZV<0>, ZPZV<2>, ZPZV<1>, ZPZV<1>, }; // NOLINT
02795 template<>> struct ConwayPolynomial<3, 16> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2</pre>
                               ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<1>, ZPZV<2»; }; // NOLINT</pre>
02796 template<> struct ConwayPolynomial<3, 17> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>,
                              02797 template<> struct ConwayPolynomial<3, 18> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0 , ZPZV<0 
 02798 template<> struct ConwayPolynomial<3, 19> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZ
                             ZPZV<3»; }; // NOLINT</pre>
 02801 template<> struct ConwayPolynomial<5, 2> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                             ZPZV<4>, ZPZV<2»; }; // NOLINT
 02802 template<> struct ConwayPolynomial<5, 3> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
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ZPZV<0>, ZPZV<3>, ZPZV<3»; }; // NOLINT
02803 template<> struct ConwayPolynomial<5, 4> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<4>, ZPZV<2»; }; // NOLINT
 02804 template<> struct ConwayPolynomial<5, 5> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<3»; }; // NOLINT
02805 template<> struct ConwayPolynomial<5, 6> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<1>, ZPZV<4>, ZPZV<1>, ZPZV<0>, ZPZV<2»; }; // NOLINT
 02806 template<> struct ConwayPolynomial<5, 7> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3»; }; // NOLINT
02807 template<> struct ConwayPolynomial<5, 8> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<4>, ZPZV<2»; }; // NOLINT
02808 template<> struct ConwayPolynomial<5, 9> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<0>, ZPZV<1>, ZPZV<3»; }; // NOLINT
 02809 template<> struct ConwayPolynomial<5, 10> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<2>, ZPZV<4>, ZPZV<1>, ZPZV<2»; };</pre>
                       NOLINT
02810 template<> struct ConwayPolynomial<5, 11> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3 , ZPZV
                       // NOLINT
02811 template<> struct ConwayPolynomial<5, 12> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<3>, ZPZV<2>,
                       ZPZV<2»; }; // NOLINT</pre>
02812 template<> struct ConwayPolynomial<5, 13> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>
                        ZPZV<3>, ZPZV<3»; }; // NOLINT</pre>
02813 template<> struct ConwayPolynomial<5, 14> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<2>, ZPZV<3>,
                       ZPZV<0>, ZPZV<1>, ZPZV<2»; }; // NOLINT</pre>
02814 template<> struct ConwayPolynomial<5, 15> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZ
02815 template<> struct ConwayPolynomial<5, 16> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<4>, ZPZV<4 , ZPZ
                        ZPZV<2>, ZPZV<4>, ZPZV<4>, ZPZV<1>, ZPZV<2»; }; // NOLINT</pre>
 02816 template<> struct ConwayPolynomial<5, 17> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZ
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<2>, ZPZV<2»; }; // NOLINT

02817 template<> struct ConwayPolynomial<5, 18> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<2>, ZPZV<0>,
                        ZPZV<2>, ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<0>, ZPZV<2»; }; // NOLINT</pre>
02818 template<> struct ConwayPolynomial<5, 19> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZ
02819 template<> struct ConwayPolynomial<5, 20> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<4>, ZPZV<3>, ZPZV<4>, ZPZV<3>, ZPZV<2>, ZPZV<0>, ZPZ
02820 template<> struct ConwayPolynomial<7, 1> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                      ZPZV<4»; }; // NOLINT</pre>
02821 template<> struct ConwayPolynomial<7, 2> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                       ZPZV<6>, ZPZV<3»; }; // NOLINT
02822 template<> struct ConwayPolynomial<7, 3> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                        ZPZV<6>, ZPZV<0>, ZPZV<4»; }; // NOLINT</pre>
 02823 template<> struct ConwayPolynomial<7, 4> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<5>, ZPZV<4>, ZPZV<3»; }; // NOLINT

02824 template<> struct ConwayPolynomial<7, 5> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<4»; }; // NOLINT</pre>
 02825 template<> struct ConwayPolynomial<7, 6> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<1>, ZPZV<5>, ZPZV<4>, ZPZV<6>, ZPZV<3»; }; // NOLINT</pre>
 02826 template<> struct ConwayPolynomial<7, 7> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<4»; }; // NOLINT</pre>
02827 template<> struct ConwayPolynomial<7, 8> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<6>, ZPZV<2>, ZPZV<3»; }; // NOLINT
 02828 template<> struct ConwayPolynomial<7, 9> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6</pre>
02829 template<> struct ConwayPolynomial<7, 10> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<4>, ZPZV<1>, ZPZV<2>, ZPZV<3>, ZPZV<3»; };</pre>
                       NOLINT
02830 template<> struct ConwayPolynomial<7, 11> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<4»; };</pre>
                         // NOLINT
02831 template<> struct ConwayPolynomial<7, 12> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<5>, ZPZV<3>, ZPZV<2>, ZPZV<4>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<0>,
                       ZPZV<3»; }; // NOLINT</pre>
02832 template<> struct ConwayPolynomial<7, 13> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>
                        ZPZV<0>, ZPZV<4»; }; // NOLINT</pre>
 02833 template<> struct ConwayPolynomial<7, 14> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<6>, ZPZV<6>, ZPZV<2>, ZPZV<0>,
                       ZPZV<3>, ZPZV<6>, ZPZV<3»; }; // NOLINT</pre>
02834 template<> struct ConwayPolynomial<7, 15> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>,
                        ZPZV<4>, ZPZV<1>, ZPZV<2>, ZPZV<4»; };</pre>
                                                                                                                                                                          // NOLINT
 02835 template<> struct ConwayPolynomial<7, 16> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                       \label{eq:continuous} \mbox{\tt ZPZV<1>, ZPZV<6>, ZPZV<2>, ZPZV<4>, ZPZV<3»; }; // \mbox{\tt NOLINT}
02836 template<> struct ConwayPolynomial<7, 17> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV
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ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<4»; }; // NOLINT</pre>
 02837 template<> struct ConwayPolynomial<7, 18> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                      ZPZV<1>, ZPZV<3>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<2>, ZPZV<3»; }; // NOLINT</pre>
02838 template<> struct ConwayPolynomial<7, 19> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , ZPZV
 02839 template<> struct ConwayPolynomial<7, 20> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<6>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<3>, ZPZV<3>, ZPZV<3>, ZPZV<3>, ZPZV<1>, ZPZV<3>, ZPZV<1>, ZPZ
                      ZPZV<9»; }; // NOLINT</pre>
02841 template<> struct ConwayPolynomial<11, 2> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                       ZPZV<7>, ZPZV<2»; }; // NOLINT</pre>
 02842 template<> struct ConwayPolynomial<11, 3> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<2>, ZPZV<9»; }; // NOLINT</pre>
02843 template<> struct ConwayPolynomial<11, 4> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<8>, ZPZV<10>, ZPZV<2»; };</pre>
                                                                                                                                                                        // NOLINT
 02844 template<> struct ConwayPolynomial<11, 5> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<0>, ZPZV<9»; }; // NOLINT</pre>
 02845 template<> struct ConwayPolynomial<11, 6> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<3>, ZPZV<4>, ZPZV<6>, ZPZV<7>, ZPZV<2»; }; // NOLINT</pre>
02846 template<> struct ConwayPolynomial<11, 7> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<9»; }; // NOLINT
02847 template<> struct ConwayPolynomial<11, 8> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<7>, ZPZV<1>, ZPZV<7>, ZPZV<7>, ZPZV<2»; ); // NOLINT</pre>
 02848 template<> struct ConwayPolynomial<11, 9> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                      02849 template<> struct ConwayPolynomial<11, 10> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<8>, ZPZV<10>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<2»; }; //</pre>
                      NOLINT
02850 template<> struct ConwayPolynomial<11, 11> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>
                       // NOLINT
02851 template<> struct ConwayPolynomial<11, 12> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5-, ZP
                      ZPZV<2»; }; // NOLINT</pre>
 02852 template<> struct ConwayPolynomial<11, 13> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>
                       ZPZV<7>, ZPZV<9»; }; // NOLINT</pre>
02853 template<> struct ConwayPolynomial<11, 14> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<9>, ZPZV<6>, ZPZV<4>, ZPZV<8>,
                      ZPZV<6>, ZPZV<10>, ZPZV<2»; }; // NOLINT</pre>
02854 template<> struct ConwayPolynomial<11, 15> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<10>, ZPZV<10>,
                       ZPZV<5>, ZPZV<0>, ZPZV<0>, ZPZV<9»; }; // NOLINT</pre>
02855 template<> struct ConwayPolynomial<11, 16> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<3>, ZPZV<3>, ZPZV<5>, ZPZV<3>, ZPZV<3 , ZPZV<3 
02856 template<> struct ConwayPolynomial<11, 17> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<9»; }; // NOLINT
02857 template<> struct ConwayPolynomial<11, 18> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<4>, ZPZV<3>, ZPZV<4>, ZPZV<3>, ZPZV<3>, ZPZV<4>, ZPZV<4>, ZPZV<3>, ZPZV<5</pre>
 02858 template<> struct ConwayPolynomial<11, 19> { using ZPZ = aerobus::zpz<11>, using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZ
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<2>, ZPZV<9»; }; // NOLINT</pre>
 02859 template<> struct ConwayPolynomial<11, 20> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1</pre>
ZPZV<5>, ZPZV<7>, ZPZV<2>, ZPZV<4>, ZPZV<5>, ZPZV<5>, ZPZV<6>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<2>; }; // NOLINT 02860 template<> struct ConwayPolynomial<13, 1> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                      ZPZV<11»; }; // NOLINT
 02861 template<> struct ConwayPolynomial<13, 2> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                      ZPZV<12>, ZPZV<2»; }; // NOLINT</pre>
 02862 template<> struct ConwayPolynomial<13, 3> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<2>, ZPZV<11»; }; // NOLINT</pre>
02863 template<> struct ConwayPolynomial<13, 4> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<3>, ZPZV<12>, ZPZV<2»; }; // NOLINT</pre>
 02864 template<> struct ConwayPolynomial<13, 5> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<11»; }; // NOLINT</pre>
 02865 template<> struct ConwayPolynomial<13, 6> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<11>, ZPZV<11>, ZPZV<2»; }; // NOLINT</pre>
 02866 template<> struct ConwayPolynomial<13, 7> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<11»; }; // NOLINT
 02867 template<> struct ConwayPolynomial<13, 8> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<12>, ZPZV<2>, ZPZV<3>, ZPZV<2»; }; // NOLINT</pre>
02868 template<> struct ConwayPolynomial<13, 9> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<8>, ZPZV<12>, ZPZV<13>; // NOLINT 02869 template<> struct ConwayPolynomial<13, 10> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<5>, ZPZV<8>, ZPZV<1>, ZPZV<1>, ZPZV<2»; }; //</pre>
 02870 template<> struct ConwayPolynomial<13, 11> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<3>, ZPZV<11»; };</pre>
                       // NOLINT
02871 template<> struct ConwayPolynomial<13, 12> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<5>, ZPZV<8>, ZPZV<1>, ZPZV<3>, ZPZV<1>, ZPZV<1>, ZPZV<4>,
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ZPZV<2»; };</pre>
 02872 template<> struct ConwayPolynomial<13, 13> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>
02873 template<> struct ConwayPolynomial<13, 14> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<10>, ZPZV
 02874 template<> struct ConwayPolynomial<13, 15> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<2>, ZPZV<3>, ZPZV<12>, ZPZV<12>, ZPZV<5>, ZPZV<5-, Z
 02876 template<> struct ConwayPolynomial<13, 17> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZ
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<6>, ZPZV<11»; }; // NOLINT 02877 template<> struct ConwayPolynomial<13, 18> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<3>, ZPZV<3 , ZPZ
02878 template<> struct ConwayPolynomial<13, 19> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>
02879 template<> struct ConwayPolynomial<13, 20> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<12>, ZPZV<9>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<3>, ZPZV<1>, ZPZV<2»; }; // NOLINT
02880 template<> struct ConwayPolynomial<17, 1> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                              ZPZV<14»; }; // NOLINT
 02881 template<> struct ConwayPolynomial<17, 2> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                             ZPZV<16>, ZPZV<3»; }; // NOLINT</pre>
02882 template<> struct ConwayPolynomial<17, 3> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<1>, ZPZV<14»; }; // NOLINT</pre>
 02883 template<> struct ConwayPolynomial<17, 4> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<7>, ZPZV<10>, ZPZV<3»; };
                                                                                                                                                                                                                        // NOLINT
 02884 template<> struct ConwayPolynomial<17, 5> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<14»; }; // NOLINT
02885 template<> struct ConwayPolynomial<17, 6> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<2>, ZPZV<0>, ZPZV<1>, ZPZV<10>, ZPZV<3»; }; // NOLINT

02886 template<> struct ConwayPolynomial<17, 7> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<14»; }; // NOLINT</pre>
02887 template<> struct ConwayPolynomial<17, 8> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<6 , ZPZ
02888 template<> struct ConwayPolynomial<17, 9> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<8>, ZPZV<14»; }; // NOLINT
02889 template<> struct ConwayPolynomial<17, 10> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<6>, ZPZV<5>, ZPZV<9>, ZPZV<12>, ZPZV<3»; }; //</pre>
                             NOLINT
02890 template<> struct ConwayPolynomial<17, 11> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<5>, ZPZV<14»; };</pre>
                              // NOLINT
02891 template<> struct ConwayPolynomial<17, 12> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<14>, ZPZV<14>, ZPZV<14>, ZPZV<13>, ZPZV<6>, ZPZV<14>, ZPZV<9>,
                             ZPZV<3»; }; // NOLINT</pre>
 02892 template<> struct ConwayPolynomial<17, 13> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>
 02893 template<> struct ConwayPolynomial<17, 14> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<10>, ZPZ
                              ZPZV<9>, ZPZV<3>, ZPZV<3»: }; // NOLINT
 02894 template<> struct ConwayPolynomial<17, 15> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<46, ZPZV<44, ZPZV<414, ZPZV<14»; }; // NOLINT</pre>
02895 template<> struct ConwayPolynomial<17, 16> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<13>, ZPZV<5>, ZPZV<2>,
ZPZV<12>, ZPZV<13>, ZPZV<12>, ZPZV<3>; }; // NOLINT

02896 template<> struct ConwayPolynomial<17, 17> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<5>, ZPZV<16, ZPZV<7>, ZPZV<1>,
                              ZPZV<0>, ZPZV<9>, ZPZV<11>, ZPZV<13>, ZPZV<13>, ZPZV<9>, ZPZV<3»; }; // NOLINT</pre>
02898 template<> struct ConwayPolynomial<17, 19> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<11>, ZPZV<14»; }; // NOLINT</pre>
02899 template<> struct ConwayPolynomial<17, 20> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1
 02900 template<> struct ConwayPolynomial<19, 1> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                             ZPZV<17»; }; // NOLINT</pre>
 02901 template<> struct ConwayPolynomial<19, 2> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                             02902 template<> struct ConwayPolynomial<19, 3> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<4>, ZPZV<17»; }; // NOLINT</pre>
 02903 template<> struct ConwayPolynomial<19, 4> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<2>, ZPZV<11>, ZPZV<2»; }; // NOLINT</pre>
 02904 template<> struct ConwayPolynomial<19, 5> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
 ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<17»; }; // NOLINT
02905 template<> struct ConwayPolynomial<19, 6> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
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ZPZV<0>, ZPZV<0>, ZPZV<17>, ZPZV<17>, ZPZV<6>, ZPZV<2»; }; // NOLINT</pre>
 02906 template<> struct ConwayPolynomial<19, 7> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<17»; }; // NOLINT
 02907 template<> struct ConwayPolynomial<19, 8> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<12>, ZPZV<10>, ZPZV<3>, ZPZV<2»; }; // NOLINT</pre>
02908 template<> struct ConwayPolynomial<19, 9> { using ZPZ = aerobus::zpz<19>, using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<14>, ZPZV<16>, ZPZV<17»; }; // NOLINT</pre>
 02909 template<> struct ConwayPolynomial<19, 10> { using ZPZ = aerobus::zpz<19>; using type
                                                                                                                                                                                                                                                                                                           = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<18>, ZPZV<13>, ZPZV<17>, ZPZV<3>, ZPZV<4>, ZPZV<4>, ZPZV<2»; }; //</pre>
                    NOLINT
 02910 template<> struct ConwayPolynomial<19, 11> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<0>
                      // NOLINT
 02911 template<> struct ConwayPolynomial<19, 12> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<2>, ZPZV<18>, ZPZV<2>, ZPZV<9>, ZPZV<16>, ZPZV<7>,
                     ZPZV<2»; }; // NOLINT</pre>
02912 template<> struct ConwayPolynomial<19, 13> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZ
 02913 template<> struct ConwayPolynomial<19, 14> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<11>, ZPZV<11>, ZPZV<11>, ZPZV<1>, ZPZV<5>,
                    ZPZV<16>, ZPZV<7>, ZPZV<2>; }; // NOLINT
02914 template<> struct ConwayPolynomial<19, 15> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<11>, ZPZV<13>, ZPZV<14>, ZPZV<14>, ZPZV<14>, ZPZV<17»; }; // NOLINT

02915 template<> struct ConwayPolynomial<19, 16> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<12>, ZPZV<12>, ZPZV<13>, ZPZV<13>, ZPZV<15>, ZPZV<15>, ZPZV<6>, ZPZV<14>, ZPZV<2»; }; // NOLINT</pre>
02916 template<> struct ConwayPolynomial<19, 17> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<0 , ZPZV<0 
02917 template<> struct ConwayPolynomial<19, 18> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<1>, ZPZV<7>, ZPZV<17>, ZPZV<5>,
                     ZPZV<0>, ZPZV<16>, ZPZV<5>, ZPZV<7>, ZPZV<3>, ZPZV<14>, ZPZV<2»; }; // NOLINT</pre>
 02918 template<> struct ConwayPolynomial<19, 19> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZ
                     \texttt{ZPZV} < \texttt{0>, } \texttt{ZPZV} < \texttt{17} \text{, } ; }; \text{ } // \text{ } \texttt{NOLINT} 
 02919 template<> struct ConwayPolynomial<19, 20> { using ZPZ = aerobus::zpz<19>, using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<16>, ZPZV<13>, ZPZV<0>,
                     ZPZV<4>, ZPZV<7>, ZPZV<8>, ZPZV<6>, ZPZV<0>, ZPZV<3>, ZPZV<6>, ZPZV<11>, ZPZV<2»; }; // NOLINT</pre>
02920 template<> struct ConwayPolynomial<23, 1> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<18»; }; // NOLINT</pre>
 02921 template<> struct ConwayPolynomial<23, 2> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<21>, ZPZV<5»; }; // NOLINT</pre>
 02922 template<> struct ConwayPolynomial<23, 3> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<2>, ZPZV<18»; }; // NOLINT</pre>
 02923 template<> struct ConwayPolynomial<23, 4> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<3>, ZPZV<19>, ZPZV<5»; }; // NOLINT</pre>
02924 template<> struct ConwayPolynomial<23, 5> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<18»: }: // NOLINT
02925 template<> struct ConwayPolynomial<23, 6> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<1>, ZPZV<9>, ZPZV<9>, ZPZV<1>, ZPZV<5»; }; // NOLINT</pre>
 02926 template<> struct ConwayPolynomial<23, 7> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<21>, ZPZV<18»; }; // NOLINT
02927 template<> struct ConwayPolynomial<23, 8> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<2>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ; // NOLINT
 02928 template<> struct ConwayPolynomial<23, 9> { using ZPZ = aerobus::zpz<23>, using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<8>, ZPZV<9>, ZPZV<9>, ZPZV<18»; }; // NOLINT</pre>
 02929 template<> struct ConwayPolynomial<23, 10> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<15>, ZPZV<15>, ZPZV<6>, ZPZV<1>, ZPZV<5»; };</pre>
                    NOLINT
02930 template<> struct ConwayPolynomial<23, 11> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<18»;</pre>
 02931 template<> struct ConwayPolynomial<23, 12> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                     \texttt{ZPZV} < \texttt{0>, ZPZV} < \texttt{0>, ZPZV} < \texttt{0>, ZPZV} < \texttt{0>, ZPZV} < \texttt{21>, ZPZV} < \texttt{21>, ZPZV} < \texttt{15>, ZPZV} < \texttt{14>, ZPZV} < \texttt{12>, ZPZV} < \texttt{18>, ZPZV}
                    ZPZV<12>, ZPZV<5»; }; // NOLINT</pre>
02932 template<> struct ConwayPolynomial<23, 13> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>
                     ZPZV<9>, ZPZV<18»; }; //</pre>
                                                                                                       NOLINT
 02933 template<> struct ConwayPolynomial<23, 14> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<5>, ZPZV<16>, ZPZV<1>, ZPZV<18>, ZPZV<19>,
                    ZPZV<1>, ZPZV<22>, ZPZV<5»; }; // NOLINT</pre>
02934 template<> struct ConwayPolynomial<23, 15> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<2>, ZPZV<8>, ZPZV<15>, ZPZV<9>, ZPZV<7>, ZPZV<18>, ZPZV<18»; }; // NOLINT
 02935 template<> struct ConwayPolynomial<23, 16> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<19>, ZPZV<19>, ZPZV<16>, ZPZV<13>, ZPZV<14>, ZPZV<14>, ZPZV<17>, ZPZV<5»; }; // NOLINT</pre>
02936 template<> struct ConwayPolynomial<23, 17> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZ
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<20>, ZPZV<18»; }; // NOLINT</pre>
 02937 template<> struct ConwayPolynomial<23, 18> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<18>, ZPZV<2>, ZPZV<1>, ZPZV<18, ZPZV<18</pre>
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ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<18»; };</pre>
 02939 template<> struct ConwayPolynomial<29, 1> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                   ZPZV<27»; }; // NOLINT</pre>
 02940 template<> struct ConwayPolynomial<29, 2> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                   ZPZV<24>, ZPZV<2»; }; // NOLINT
02941 template<> struct ConwayPolynomial<29, 3> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<2>, ZPZV<27»; }; // NOLINT</pre>
 02942 template<> struct ConwayPolynomial<29, 4> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<2>, ZPZV<15>, ZPZV<2»; };</pre>
                                                                                                                                                        // NOLINT
 02943 template<> struct ConwayPolynomial<29, 5> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<27»; }; // NOLINT

02944 template<> struct ConwayPolynomial<29, 6> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<25>, ZPZV<17>, ZPZV<13>, ZPZV<2»; }; // NOLINT
 02945 template<> struct ConwayPolynomial<29, 7> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<27»; }; // NOLINT</pre>
 02946 template<> struct ConwayPolynomial<29, 8> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<24>, ZPZV<26>, ZPZV<23>, ZPZV<2»; }; // NOLINT</pre>
02947 template<> struct ConwayPolynomial<29, 9> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<22>, ZPZV<22>, ZPZV<27»; }; // NOLINT
 02948 template<> struct ConwayPolynomial<29, 10> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<25>, ZPZV<8>, ZPZV<17>, ZPZV<2>, ZPZV<22>, ZPZV<22>, ZPZV<2</pre>
                    NOLINT
02949 template<> struct ConwayPolynomial<29, 11> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<28>, ZPZV<28>, ZPZV<28>, ZPZV<27»;
                     }; // NOLINT
02950 template<> struct ConwayPolynomial<29, 12> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<19>, ZPZV<28>, ZPZV<9>, ZPZV<16>, ZPZV<25>, ZPZV<1>, ZPZV<1>,
                    ZPZV<2»; }; // NOLINT</pre>
02951 template<> struct ConwayPolynomial<29, 13> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZ
02952 template<> struct ConwayPolynomial<29, 14> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<14>, ZPZV<14>, ZPZV<10>, ZPZV<21>, ZPZV<18>,
                     ZPZV<27>, ZPZV<5>, ZPZV<2»; }; // NOLINT</pre>
02953 template<> struct ConwayPolynomial<29, 15> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZP
ZPZV<1>, ZPZV<12>, ZPZV<26>, ZPZV<27»; }; // NOLINT

02954 template<> struct ConwayPolynomial<29, 16> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<27>, ZPZV<2>, ZPZV<18>,
                     ZPZV<23>, ZPZV<1>, ZPZV<27>, ZPZV<10>, ZPZV<2»; }; // NOLINT</pre>
02955 template<> struct ConwayPolynomial<29, 17> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, Z
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<27»; }; // NOLINT

02956 template<> struct ConwayPolynomial<29, 18> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<24>, ZPZV<1>, ZPZV<1>, ZPZV<6>, ZPZV<6>, ZPZV<26>,
ZPZV<2>, ZPZV<10>, ZPZV<8>, ZPZV<16>, ZPZV<19>, ZPZV<14>, ZPZV<2»; }; // NOLINT

02957 template<> struct ConwayPolynomial<29, 19> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>
ZPZV<0>, ZPZ
                    ZPZV<28»; }; // NOLINT
 02959 template<> struct ConwayPolynomial<31, 2> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                    ZPZV<29>, ZPZV<3»; }; // NOLINT</pre>
 02960 template<> struct ConwayPolynomial<31, 3> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<1>, ZPZV<28»; }; // NOLINT</pre>
02961 template<> struct ConwayPolynomial<31, 4> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<3>, ZPZV<16>, ZPZV<3»; };</pre>
                                                                                                                                                        // NOLINT
 02962 template<> struct ConwayPolynomial<31, 5> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<28»; }; // NOLINT</pre>
 02963 template<> struct ConwayPolynomial<31, 6> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<1>, ZPZV<15>, ZPZV<16>, ZPZV<3>; }; // NOLINT

02964 template<> struct ConwayPolynomial<31, 7> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<28»; }; // NOLINT
 02965 template<> struct ConwayPolynomial<31, 8> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<25>, ZPZV<12>, ZPZV<24>, ZPZV<3»; }; // NOLINT
02966 template<> struct ConwayPolynomial<31, 9> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<20>, ZPZV<29>, ZPZV<28»; }; // NOLINT
02967 template<> struct ConwayPolynomial<31, 10> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<30>, ZPZV<26>, ZPZV<13>, ZPZV<13>, ZPZV<13>, ZPZV<3); //</pre>
                    NOLINT
02968 template<> struct ConwayPolynomial<31, 11> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>
                     }; // NOLINT
02969 template<> struct ConwayPolynomial<31, 12> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<14>, ZPZV<28>, ZPZV<2>, ZPZV<9>, ZPZV<2>, ZPZV<25>, ZPZV<12>,
                     ZPZV<3»; }; // NOLINT</pre>
 02970 template<> struct ConwayPolynomial<31, 13> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<0>
02971 template<> struct ConwayPolynomial<31, 14> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>
                     ZPZV<18>, ZPZV<6>, ZPZV<3»; }; // NOLINT</pre>
 02972 template<> struct ConwayPolynomial<31, 15> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>
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ZPZV<28>, ZPZV<11>, ZPZV<19>, ZPZV<27>, ZPZV<3»; };</pre>
 02974 template<> struct ConwayPolynomial<31, 17> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<2>, ZPZV<2
ZPZV<12>, ZPZV<11>, ZPZV<25>, ZPZV<25>, ZPZV<26>, ZPZV<6>, ZPZV<3»; ); // NOLINT
02976 template<> struct ConwayPolynomial<31, 19> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
                     ZPZV<35»; }; // NOLINT
02978 template<> struct ConwayPolynomial<37, 2> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                     02979 template<> struct ConwayPolynomial<37, 3> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<6>, ZPZV<35»; }; // NOLINT
02980 template<> struct ConwayPolynomial<37, 4> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<6>, ZPZV<24>, ZPZV<2*; }; // NOLINT

02981 template<> struct ConwayPolynomial<37, 5> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<35»; }; // NOLINT</pre>
 02982 template<> struct ConwayPolynomial<37, 6> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<35>, ZPZV<4>, ZPZV<30>, ZPZV<2»; };  // NOLINT</pre>
02983 template<> struct ConwayPolynomial<37, 7> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<7>, ZPZV<35»; }; // NOLINT</pre>
02984 template<> struct ConwayPolynomial<37, 8> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<20>, ZPZV<27>, ZPZV<27>, ZPZV<1>, ZPZV<2»; }; // NOLINT</pre>
 02985 template<> struct ConwayPolynomial<37, 9> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
NOLINT
02987 template<> struct ConwayPolynomial<37, 11> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<2>, ZPZV<35»; };</pre>
                      // NOLINT
02988 template<> struct ConwayPolynomial<37, 12> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<31>, ZPZV<10>, ZPZV<23>, ZPZV<23>, ZPZV<28>, ZPZV<18>,
                     ZPZV<33>, ZPZV<2»; }; // NOLINT</pre>
 02989 template<> struct ConwayPolynomial<37, 13> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>
                      ZPZV<6>, ZPZV<35»; }; // NOLINT</pre>
02990 template<> struct ConwayPolynomial<37, 14> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<35>, ZPZV<35>, ZPZV<1>, ZPZV<32>, ZPZV<16>,
ZPZV<1>, ZPZV<9>, ZPZV<2»; }; // NOLINT</pre>
02991 template<> struct ConwayPolynomial<37, 15> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<31>, ZPZV<28>, ZPZV<27>,
                      ZPZV<13>, ZPZV<34>, ZPZV<33>, ZPZV<35»; }; // NOLINT</pre>
02992 template<> struct ConwayPolynomial<37, 17> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, Z
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<35»; }; // NOLINT

02993 template<> struct ConwayPolynomial<37, 18> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<19>, ZPZV<15>, ZPZV<15, ZPZV<22>,
                      ZPZV<20>, ZPZV<12>, ZPZV<32>, ZPZV<14>, ZPZV<27>, ZPZV<20>, ZPZV<2»; }; // NOLINT</pre>
 02994 template<> struct ConwayPolynomial<37, 19> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
                     ZPZV<35»; }; // NOLINT
 02996 template<> struct ConwayPolynomial<41, 2> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                     02997 template<> struct ConwayPolynomial<41, 3> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<1>, ZPZV<35»; }; // NOLINT</pre>
 02998 template<> struct ConwayPolynomial<41, 4> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<23>, ZPZV<6»; };</pre>
                                                                                                                                                                // NOLINT
 02999 template<> struct ConwayPolynomial<41, 5> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<40>, ZPZV<40>, ZPZV<14>, ZPZV<35»; }; // NOLINT
 03000 template<> struct ConwayPolynomial<41, 6> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                     03001 template<> struct ConwayPolynomial<41, 7> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<35»; }; // NOLINT
 03002 template<> struct ConwayPolynomial<41, 8> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<32>, ZPZV<20>, ZPZV<6>, ZPZV<6»; }; // NOLINT
 03003 template<> struct ConwayPolynomial<41, 9> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<4>, ZPZV<31>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<25»; ; // NOLINT 03004 template<> struct ConwayPolynomial<41, 10> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<31>, ZPZV<8>, ZPZV<20>, ZPZV<30>, ZPZV<6»; }; //</pre>
 03005 template<> struct ConwayPolynomial<41, 11> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0</pre>, ZPZV<0>, ZP
                      }; // NOLTNT
03006 template<> struct ConwayPolynomial<41, 12> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<26>, ZPZV<13>, ZPZV<34>, ZPZV<34, ZPZV<21>,
                      ZPZV<27>, ZPZV<6»; }; // NOLINT</pre>
 03007 template<> struct ConwayPolynomial<41, 13> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZ
                     ZPZV<13>, ZPZV<35»; }; // NOLINT
03008 template<> struct ConwayPolynomial<41, 14> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1
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ZPZV<39>, ZPZV<10>, ZPZV<6»; };</pre>
 03009 template<> struct ConwayPolynomial<41, 15> { using ZPZ = aerobus::zpz<41>, using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<2>,
ZPZV<35>, ZPZV<10>, ZPZV<21>, ZPZV<35»; }; // NOLINT
03010 template<> struct ConwayPolynomial<41, 17> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZ
 03011 template<> struct ConwayPolynomial<41, 18> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                             \texttt{ZPZV} < \texttt{0} >, \ \texttt{ZPZV} < \texttt{1} >, \ \texttt{ZPZV} < \texttt{7} >, \ \texttt{ZPZV} < \texttt{20} >, \ \texttt{ZPZV} < \texttt{23} >, \ \texttt{ZPZV} < \texttt{35} >, \ \texttt{2PZV} < \texttt{35} >, \ \texttt{2PZV} < \texttt{35} >, \ \texttt{2PZV} < \texttt{35} >, \ \texttt{3PZV} < \texttt{
ZPZV<38>, ZPZV<24>, ZPZV<12>, ZPZV<29>, ZPZV<10>, ZPZV<6>, ZPZV<6»; }; // NOLINT
03012 template<> struct ConwayPolynomial<41, 19> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZ
 03013 template<> struct ConwayPolynomial<43, 1> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                             ZPZV<40»; }; // NOLINT</pre>
 03014 template<> struct ConwayPolynomial<43, 2> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                            ZPZV<42>, ZPZV<3»; }; // NOLINT
 03015 template<> struct ConwayPolynomial<43, 3> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<1>, ZPZV<40»; }; // NOLINT</pre>
03016 template<> struct ConwayPolynomial<43, 4> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<5>, ZPZV<42>, ZPZV<3»; };</pre>
                                                                                                                                                                                                                      // NOLINT
 03017 template<> struct ConwayPolynomial<43, 5> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
03019 template<> struct ConwayPolynomial<43, 7> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<42>, ZPZV<7>, ZPZV<40»; }; // NOLINT</pre>
 03020 template<> struct ConwayPolynomial<43, 8> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<39>, ZPZV<20>, ZPZV<24>, ZPZV<3»; }; // NOLINT</pre>
03021 template<> struct ConwayPolynomial<43, 9> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<39>, ZPZV<1>, ZPZV<40»; }; // NOLINT
03022 template<> struct ConwayPolynomial<43, 10> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<26>, ZPZV<36>, ZPZV<5>, ZPZV<27>, ZPZV<24>, ZPZV<3»; }; //</pre>
03023 template<> struct ConwayPolynomial<43, 11> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZP
                              // NOLINT
 03024 template<> struct ConwayPolynomial<43, 12> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<34>, ZPZV<27>, ZPZV<16>, ZPZV<17>, ZPZV<65, ZPZV<23>,
                             ZPZV<38>, ZPZV<3»; }; // NOLINT</pre>
03025 template<> struct ConwayPolynomial<43, 13> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>
03026 template<> struct ConwayPolynomial<43, 14> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<37>, ZPZV<18>, ZPZV<24>, ZPZV<24>, ZPZV<24>, ZPZV<37>, ZPZV<18>, ZPZV<4>, ZPZV<49>, ZPZV<3»; }; // NOLINT
03027 template<> struct ConwayPolynomial<43, 15> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<3>, ZPZV<24>, ZPZV<41>, ZPZV<24>, ZPZV<24>, ZPZV<24>, ZPZV<24>, ZPZV<34>, ZPZV<34 , ZPZV
03030 template<> struct ConwayPolynomial<43, 19> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0 , ZPZ
 03031 template<> struct ConwayPolynomial<47, 1> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                            ZPZV<42»; }; // NOLINT
03032 template<> struct ConwayPolynomial<47, 2> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                            ZPZV<45>, ZPZV<5»; }; // NOLINT
 03033 template<> struct ConwayPolynomial<47, 3> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<3>, ZPZV<42»; }; // NOLINT</pre>
 03034 template<> struct ConwayPolynomial<47, 4> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<8>, ZPZV<40>, ZPZV<5»; }; // NOLINT</pre>
 03035 template<> struct ConwayPolynomial<47, 5> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<4>, ZPZV<42, ZPZV<42, ZPZV<42; ; // NOLINT
03036 template<> struct ConwayPolynomial<47, 6> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<2>, ZPZV<35>, ZPZV<9>, ZPZV<41>, ZPZV<5»; }; // NOLINT</pre>
 03037 template<> struct ConwayPolynomial<47, 7> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<42»; }; // NOLINT</pre>
 03038 template<> struct ConwayPolynomial<47, 8> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<29>, ZPZV<19>, ZPZV<3>, ZPZV<5»; }; // NOLINT
03039 template<> struct ConwayPolynomial<47, 9> { using ZPZ = aerobus::zpz<47>, using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<19>, ZPZV<1>, ZPZV<42»; }; // NOLINI</pre>
 03040 template<> struct ConwayPolynomial<47, 10> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<42>, ZPZV<14>, ZPZV<15>, ZPZV<45>, 
                            NOLTNT
03041 template<> struct ConwayPolynomial<47, 11> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<42»; );</pre>
                               // NOLINT
 03042 template<> struct ConwayPolynomial<47, 12> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<46>, ZPZV<46>, ZPZV<40>, ZPZV<35>, ZPZV<12>, ZPZV<46>, ZPZV<14</pre>
                            ZPZV<9>, ZPZV<5»; }; // NOLINT</pre>
03043 template<> struct ConwayPolynomial<47, 13> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZP
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ZPZV<5>, ZPZV<42»; };</pre>
03044 template<> struct ConwayPolynomial<47, 14> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<36>, ZPZV<26>, ZPZV<26>, ZPZV<26>, ZPZV<20>, ZPZV<20>, ZPZV<30>, ZPZV<30>, ZPZV<31>, ZPZV<24>, ZPZV<9>, ZPZV<9>, ZPZV<32>, ZPZV<5»; }; // NOLINT</pre>
 03045 template<> struct ConwayPolynomial<47, 15> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<14>, ZPZV<14>, ZPZV<14>, ZPZV<13>, ZPZV<14>, ZPZV<14>; // NOLINT

03046 template<> struct ConwayPolynomial<47, 17> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<41>, ZPZV<42>, ZPZV<26>, ZPZV<44>, ZPZV<24>, ZPZV<24>, ZPZV<25>, ZPZV<45>, ZPZV<33>, ZPZV<5»; }; // NOLINT</pre>
 ZPZV<24>, ZPZV<22>, ZPZV<11>, ZPZV<5>, ZPZV<45>, ZPZV<33>, ZPZV<5»; }; // NOLINT
03048 template<> struct ConwayPolynomial<47, 19> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZ
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<35>, ZPZV<42»; }; // NOLINT</pre>
03049 template<> struct ConwayPolynomial<53, 1> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<51»; }; // NOLINT
 03050 template<> struct ConwayPolynomial<53, 2> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<49>, ZPZV<2»; }; // NOLINT</pre>
 03051 template<> struct ConwayPolynomial<53, 3> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<3>, ZPZV<51»; }; // NOLINT</pre>
03052 template<> struct ConwayPolynomial<53, 4> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<9>, ZPZV<38>, ZPZV<2»; }; // NOLINT
03053 template<> struct ConwayPolynomial<53, 5> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<51»; }; // NOLINT</pre>
 03054 template<> struct ConwayPolynomial<53, 6> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                        \mbox{ZPZV<0>, ZPZV<1>, ZPZV<7>, ZPZV<4>, ZPZV<45>, ZPZV<2>; }; // \mbox{NOLINT} 
 03055 template<> struct ConwayPolynomial<53, 7> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<51»; }; // NOLINT</pre>
03056 template<> struct ConwayPolynomial<53, 8> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<29>, ZPZV<18>, ZPZV<1>, ZPZV<2»; }; // NOLINT</pre>
 03057 template<> struct ConwayPolynomial<53, 9> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<5>, ZPZV<51»; }; // NOLINT</pre>
 03058 template<> struct ConwayPolynomial<53, 10> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<2>, ZPZV<15>, ZPZV<29>, ZPZV<29>, ZPZV<29; }; //</pre>
                       NOLINT
03059 template<> struct ConwayPolynomial<53, 11> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>
                       }; // NOLINT
03060 template<> struct ConwayPolynomial<53, 12> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<34>, ZPZV<4>, ZPZV<13>, ZPZV<10>, ZPZV<42>, ZPZV<34>,
                       ZPZV<41>, ZPZV<2»; }; // NOLINT
03061 template<> struct ConwayPolynomial<53, 13> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5</pre>
ZPZV<5<
03062 template<> struct ConwayPolynomial<53, 14> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<45>, ZPZV<23>, ZPZV<52>, ZPZV<52>, ZPZV<37>,
ZPZV<12>, ZPZV<23>, ZPZV<23>, ZPZV<2»; }; // NOLINT</pre>
03063 template<> struct ConwayPolynomial<53, 15> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>,
ZPZV<11>, ZPZV<20>, ZPZV<4>, ZPZV<51»; }; // NOLINT
03064 template<> struct ConwayPolynomial<53, 17> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0 , ZPZ
ZPZV<39>, ZPZV<44>, ZPZV<6>, ZPZV<8>, ZPZV<16>, ZPZV<11>, ZPZV<2»; ); // NOLINT
03066 template<> struct ConwayPolynomial<53, 19> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>
03067 template<> struct ConwayPolynomial<59, 1> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                       ZPZV<57»; }; // NOLINT
 03068 template<> struct ConwayPolynomial<59, 2> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                       ZPZV<58>, ZPZV<2»; }; // NOLINT</pre>
 03069 template<> struct ConwayPolynomial<59, 3> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<5>, ZPZV<57»; }; // NOLINT</pre>
03070 template<> struct ConwayPolynomial<59, 4> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<2>, ZPZV<40>, ZPZV<2»; }; // NOLINT</pre>
 03071 template<> struct ConwayPolynomial<59, 5> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<57»; }; // NOLINT</pre>
 03072 template<> struct ConwayPolynomial<59, 6> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<2>, ZPZV<18>, ZPZV<38>, ZPZV<0>, ZPZV<2»; };  // NOLINT</pre>
 03073 template<> struct ConwayPolynomial<59, 7> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<5, ZPZV<
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<16>, ZPZV<32>, ZPZV<2>, ZPZV<50>, ZPZV<2»; }; //</pre>
                                                                                                                                                                                                                                                                                                                                  NOLINT
 03075 template<> struct ConwayPolynomial<59, 9> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
03077 template<> struct ConwayPolynomial<59, 11> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>
                       // NOLINT
03078 template<> struct ConwayPolynomial<59, 12> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<35>, ZPZV<51>, ZPZV<21>, ZPZV<38>, ZPZV<8>,
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ZPZV<1>, ZPZV<2»; };</pre>
 03079 template<> struct ConwayPolynomial<59, 13> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZ
                           ZPZV<3>, ZPZV<57»; }; // NOLINT</pre>
 03080 template<> struct ConwayPolynomial<59, 14> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<31>, ZPZV<51>, ZPZV<11>, ZPZV<13>,
                           ZPZV<25>, ZPZV<32>, ZPZV<26>, ZPZV<2»; }; // NOLINT</pre>
 03081 template<> struct ConwayPolynomial<59, 15> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                            \texttt{ZPZV} < \texttt{0} >, \ \texttt{Z
ZPZV<13>, ZPZV<39>, ZPZV<58>, ZPZV<57»; }; // NOLINT
03082 template<> struct ConwayPolynomial<59, 17> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>
 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>; }; // NOLINT
03083 template<> struct ConwayPolynomial<59, 18> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<37>, ZPZV<38>, ZPZV<27>, ZPZV<11>,
ZPZV<0>, ZPZV<0 , ZPZ
03085 template<> struct ConwayPolynomial<61, 1> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<59»; }; // NOLINT</pre>
 03086 template<> struct ConwayPolynomial<61, 2> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
ZPZV<60>, ZPZV<2»; }; // NOLINT
03087 template<> struct ConwayPolynomial<61, 3> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<7>, ZPZV<59»; }; // NOLINT</pre>
 03088 template<> struct ConwayPolynomial<61, 4> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<3>, ZPZV<40>, ZPZV<2»; }; // NOLINT</pre>
 03089 template<> struct ConwayPolynomial<61, 5> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<59»; }; // NOLINT</pre>
03090 template<> struct ConwayPolynomial<61, 6> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<0>, ZPZV<49>, ZPZV<3>, ZPZV<29>, ZPZV<2»; }; // NOLINT</pre>
 03091 template<> struct ConwayPolynomial<61, 7> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<59»; }; // NOLINT</pre>
 03092 template<> struct ConwayPolynomial<61, 8> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<57>, ZPZV<5>, ZPZV<56>, ZPZV<2»; }; // NOLINT
03093 template<> struct ConwayPolynomial<61, 9> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5>); // NOLINT
03094 template<> struct ConwayPolynomial<61, 10> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<28>, ZPZV<15>, ZPZV<44>, ZPZV<16>, ZPZV<6>, ZPZV<2»; };</pre>
03095 template<> struct ConwayPolynomial<61, 11> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZ
                           }: // NOLINT
03096 template<> struct ConwayPolynomial<61, 12> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<42>, ZPZV<33>, ZPZV<8>, ZPZV<38>, ZPZV<14>, ZPZV<11>,
                           ZPZV<15>, ZPZV<2»; }; // NOLINT</pre>
03097 template<> struct ConwayPolynomial<61, 13> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>
                           ZPZV<3>, ZPZV<59»; }; // NOLINT</pre>
03098 template<> struct ConwayPolynomial<61, 14> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<30>, ZPZV<30>, ZPZV<30>, ZPZV<30>, ZPZV<30>, ZPZV<30>, ZPZV<54>, ZPZV<48>, ZPZV<48>, ZPZV<48>, ZPZV<54>, ZPZV<48>, ZPZV<54>, ZPZV<48>, ZPZV<54>, ZPZV<48>, ZPZV<54>, ZPZV<48>, ZPZV<54>, ZPZV<54
 03099 template<> struct ConwayPolynomial<61, 15> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<35>, ZPZV<35>, ZPZV<35>, ZPZV<35>, ZPZV<35>, ZPZV<51>, ZPZV<59»; }; // NOLINT</pre>
03100 template<> struct ConwayPolynomial<61, 17> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZ
                           ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<59»; }; // NOLINT</pre>
 03101 template<> struct ConwayPolynomial<61, 18> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<35>, ZPZV<36>, ZPZV<13>, ZPZV<13>, ZPZV<14>,
2PZV<32>, ZPZV<57>, ZPZV<42>, ZPZV<42>, ZPZV<25>, ZPZV<2
                           ZPZV<0>, ZPZ
 03103 template<> struct ConwayPolynomial<67, 1> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                          ZPZV<65»; }; // NOLINT</pre>
 03104 template<> struct ConwayPolynomial<67, 2> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                           ZPZV<63>, ZPZV<2»; }; // NOLINT</pre>
 03105 template<> struct ConwayPolynomial<67, 3> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<6>, ZPZV<65»; }; // NOLINT</pre>
 03106 template<> struct ConwayPolynomial<67, 4> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<8>, ZPZV<54>, ZPZV<2»; }; // NOLINT</pre>
 03107 template<> struct ConwayPolynomial<67, 5> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<65»; }; // NOLINT

03108 template<> struct ConwayPolynomial<67, 6> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<63>, ZPZV<49>, ZPZV<55>, ZPZV<2»; }; // NOLINT
 03109 template<> struct ConwayPolynomial<67, 7> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<65»; }; // NOLINT
03110 template<> struct ConwayPolynomial<67, 8> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
03112 template<> struct ConwayPolynomial<67, 10> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<21>, ZPZV<0>, ZPZV<16>, ZPZV<7>, ZPZV<23>, ZPZV<23; };</pre>
                          NOLINT
03113 template<> struct ConwayPolynomial<67, 11> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<66>, ZPZV<65»;
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}; // NOLINT
 03114 template<> struct ConwayPolynomial<67, 12> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<57>, ZPZV<27>, ZPZV<4>, ZPZV<55>, ZPZV<64>, ZPZV<64>, ZPZV<21>,
                             ZPZV<27>, ZPZV<2»; }; // NOLINT</pre>
 03115 template<> struct ConwayPolynomial<67, 13> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZ
 03116 template<> struct ConwayPolynomial<67, 14> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                              \texttt{ZPZV} < \texttt{0} >, \ \texttt{ZPZV} < \texttt{17} >, \ \texttt{ZPZV} < \texttt{22} >, \ \texttt{ZPZV} < \texttt{55} >, \ \texttt{ZPZV} < \texttt{56} >, \ \texttt{ZPZV} < \texttt{0} >, \ \texttt{2PZV} < \texttt{17} >, \ \texttt{2PZV} < \texttt{20} >, \ \texttt{2PZV} < \texttt{3} >, \ \texttt{2PZV} < \texttt{3} >, \ \texttt{3PZV} < \texttt{3PZV}
                             ZPZV<1>, ZPZV<37>, ZPZV<2»; }; // NOLINT
03117 template<> struct ConwayPolynomial<67, 15> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<5>, ZPZV<41>,
 ZPZV<20>, ZPZV<21>, ZPZV<46>, ZPZV<65»; ); // NOLINT
03118 template<> struct ConwayPolynomial<67, 17> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZ
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<55>, ZPZV<58*; }; // NOLINT

03119 template<> struct ConwayPolynomial<67, 18> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3
03120 template<> struct ConwayPolynomial<67, 19> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>
03121 template<> struct ConwayPolynomial<71, 1> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                             ZPZV<64»; }; // NOLINT
03122 template<> struct ConwayPolynomial<71, 2> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                             ZPZV<69>, ZPZV<7»; }; // NOLINT</pre>
 03123 template<> struct ConwayPolynomial<71, 3> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<4>, ZPZV<64»; }; // NOLINT</pre>
03124 template<> struct ConwayPolynomial<71, 4> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<41>, ZPZV<7»; }; // NOLINT
03125 template<> struct ConwayPolynomial<71, 5> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<18>, ZPZV<64»; };</pre>
                                                                                                                                                                                                                                                                            // NOLINT
 03126 template<> struct ConwayPolynomial<71, 6> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<1>, ZPZV<10>, ZPZV<13>, ZPZV<29>, ZPZV<7»; }; // NOLINT</pre>
 03127 template<> struct ConwayPolynomial<71, 7> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<64»; }; // NOLINT
03128 template<> struct ConwayPolynomial<71, 8> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<53>, ZPZV<22>, ZPZV<19>, ZPZV<7»; }; // NOLINT
 03129 template<> struct ConwayPolynomial<71, 9> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<43>, ZPZV<43>, ZPZV<62>, ZPZV<64*, }; // NOLINT
03130 template<> struct ConwayPolynomial<71, 10> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<53>, ZPZV<17>, ZPZV<26>, ZPZV<1>, ZPZV<40>, ZPZV<40>, ZPZV<7»; }; //</pre>
                             NOLINT
03131 template<> struct ConwayPolynomial<71, 11> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>
                              }; // NOLINT
03132 template<> struct ConwayPolynomial<71, 12> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<28>, ZPZV<29>, ZPZV<55>, ZPZV<21>, ZPZV<58>,
                             ZPZV<23>, ZPZV<7»; }; // NOLINT</pre>
03133 template<> struct ConwayPolynomial<71, 13> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>
                              ZPZV<27>, ZPZV<64»; }; // NOLINT</pre>
 03134 template<> struct ConwayPolynomial<71, 15> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<28>, ZPZV<32>, ZPZV<32>, ZPZV<49>, ZPZV<49>, ZPZV<64»; }; // NOLINT</pre>
03135 template<> struct ConwayPolynomial<71, 17> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<64»; }; // NOLINT</pre>
 03136 template<> struct ConwayPolynomial<71, 19> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<64»; }; // NOLINT
03137 template<> struct ConwayPolynomial<73, 1> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                             ZPZV<68»; }; // NOLINT
 03138 template<> struct ConwayPolynomial<73, 2> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                             ZPZV<70>, ZPZV<5»; }; // NOLINT</pre>
 03139 template<> struct ConwayPolynomial<73, 3> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<2>, ZPZV<68»; }; // NOLINT</pre>
03140 template<> struct ConwayPolynomial<73, 4> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<16>, ZPZV<56>, ZPZV<5»; }; // NOLINT</pre>
 03141 template<> struct ConwayPolynomial<73, 5> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<68»; }; // NOLINT</pre>
 03142 template<> struct ConwayPolynomial<73, 6> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<4>>, ZPZV<45>, ZPZV<48>, ZPZV<48>, ZPZV<5»; }; // NOLINT
03143 template<> struct ConwayPolynomial<73, 7> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<68»; }; // NOLINT
03144 template<> struct ConwayPolynomial<73, 8> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<53>, ZPZV<39>, ZPZV<18>, ZPZV<5»; }; //</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                            NOLINT
 03145 template<> struct ConwayPolynomial<73, 9> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
03147 template<> struct ConwayPolynomial<73, 11> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>
                              // NOLINT
03148 template<> struct ConwayPolynomial<73, 12> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<69>, ZPZV<52>, ZPZV<26>, ZPZV<26 , ZPZV<27 , ZP
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ZPZV<25>, ZPZV<5»; };</pre>
03149 template<> struct ConwayPolynomial<73, 13> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                                ZPZV<0>, ZPZ
                                ZPZV<7>, ZPZV<68»; }; // NOLINT</pre>
03150 template<> struct ConwayPolynomial<73, 15> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
ZPZV<0>, ZPZ
                               ZPZV<0>, ZPZV<0 , ZPZ
 03153 template<> struct ConwayPolynomial<79, 1> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                                ZPZV<76»; }; // NOLINT</pre>
 03154 template<> struct ConwayPolynomial<79, 2> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                               ZPZV<78>, ZPZV<3»; }; // NOLINT</pre>
03155 template<> struct ConwayPolynomial<79, 3> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                                ZPZV<0>, ZPZV<9>, ZPZV<76»; }; // NOLINT</pre>
03156 template<> struct ConwayPolynomial<79, 4> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                                ZPZV<0>, ZPZV<2>, ZPZV<66>, ZPZV<3»; };</pre>
                                                                                                                                                                                                                                                  // NOLINT
 03157 template<> struct ConwayPolynomial<79, 5> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5, ZPZV<76»; }; // NOLINT

03158 template<> struct ConwayPolynomial<79, 6> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<19>, ZPZV<68>, ZPZV<3»; }; // NOLINT
 03159 template<> struct ConwayPolynomial<79, 7> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                                ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<76»; }; // NOLINT
 03160 template<> struct ConwayPolynomial<79, 8> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<60>, ZPZV<59>, ZPZV<48>, ZPZV<3»; }; // NOLINT
03161 template<> struct ConwayPolynomial<79, 9> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5, ZPZV<5, ZPZV<5, ZPZV<5>, ZPZV<5, ZPZV<5>, ZPZV<5, ZPZV
                                 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<44>, ZPZV<51>, ZPZV<1>, ZPZV<30>, ZPZV<42>, ZPZV<3»; }; //
                                NOLINT
03163 template<> struct ConwayPolynomial<79, 11> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZP
                                  // NOLINT
03164 template<> struct ConwayPolynomial<79, 12> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                                 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<29>, ZPZV<45>, ZPZV<52>, ZPZV<7>, ZPZV<40>, ZPZV<59>,
                                 ZPZV<62>, ZPZV<3»; }; // NOLINT</pre>
03165 template<> struct ConwayPolynomial<79, 13> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                               ZPZV<0>, ZPZV<78>,
03166 template<> struct ConwayPolynomial<79, 17> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                                ZPZV<0>, ZPZV<0 , ZPZ
03167 template<> struct ConwayPolynomial<79, 19> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
                                ZPZV<81»; }; // NOLINT
 03169 template<> struct ConwayPolynomial<83, 2> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                                ZPZV<82>, ZPZV<2»; }; // NOLINT</pre>
 03170 template<> struct ConwayPolynomial<83, 3> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                               ZPZV<0>, ZPZV<3>, ZPZV<81»; }; // NOLINT</pre>
03171 template<> struct ConwayPolynomial<83, 4> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                                ZPZV<0>, ZPZV<4>, ZPZV<42>, ZPZV<2»; }; // NOLINT</pre>
 03172 template<> struct ConwayPolynomial<83, 5> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                                ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<81»; }; // NOLINT</pre>
 03173 template<> struct ConwayPolynomial<83, 6> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<1>, ZPZV<76>, ZPZV<32>, ZPZV<2x; }; // NOLINT
03174 template<> struct ConwayPolynomial<83, 7> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                                ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<81»; }; // NOLINT
 03175 template<> struct ConwayPolynomial<83, 8> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<65>, ZPZV<23>, ZPZV<42>, ZPZV<2»; }; // NOLINT
 03176 template<> struct ConwayPolynomial<83, 9> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<24>, ZPZV<18>, ZPZV<81»; }; // NOLINT
03177 template<> struct ConwayPolynomial<83, 10> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                                ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<0>, ZPZV<73>, ZPZV<0>, ZPZV<53>, ZPZV<2»; }; //</pre>
                                NOLINT
03178 template<> struct ConwayPolynomial<83, 11> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                                ZPZV<0>, ZPZV<0>
                                }; // NOLINT
03179 template<> struct ConwayPolynomial<83, 12> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                               ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<35>, ZPZV<31>, ZPZV<19>, ZPZV<65>, ZPZV<55>, ZPZV<75>, ZPZV<2»; }; // NOLINT
 03180 template<> struct ConwayPolynomial<83, 13> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                               ZPZV<0>, ZPZV<0>
03181 template<> struct ConwayPolynomial<83, 17> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                               ZPZV<0>, ZPZ
 03182 template<> struct ConwayPolynomial<83, 19> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                                ZPZV<0>, ZPZ
                                03183 template<> struct ConwayPolynomial<89, 1> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>, ZPZV<86»; }; // NOLINT
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03184 template<> struct ConwayPolynomial<89, 2> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                        ZPZV<82>, ZPZV<3»; };  // NOLINT</pre>
 03185 template<> struct ConwayPolynomial<89, 3> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<3>, ZPZV<86»; }; // NOLINT</pre>
03186 template<> struct ConwayPolynomial<89, 4> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<72>, ZPZV<3»; }; // NOLINT
 03187 template<> struct ConwayPolynomial<89, 5> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<86»; }; // NOLINT</pre>
 03188 template<> struct ConwayPolynomial<89, 6> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                        \mbox{ZPZV<0>, ZPZV<1>, ZPZV<82>, ZPZV<80>, ZPZV<15>, ZPZV<3»; }; // \mbox{NOLINT} 
03189 template<> struct ConwayPolynomial<89, 7> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<70, ZPZV<86»; }; // NOLINT</pre>
03190 template<> struct ConwayPolynomial<89, 8> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<65>, ZPZV<40>, ZPZV<79>, ZPZV<3»; }; //</pre>
 03191 template<> struct ConwayPolynomial<89, 9> { using ZPZ = aerobus::zpz<89>, using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<12>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<6>, ZPZV<6 , ZP
                        ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<16>, ZPZV<33>, ZPZV<82>, ZPZV<52>, ZPZV<4>, ZPZV<3»; };</pre>
                        NOLINT
03193 template<> struct ConwayPolynomial<89, 11> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZ
                         }; // NOLINT
03194 template<> struct ConwayPolynomial<89, 12> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<85>, ZPZV<15>, ZPZV<44>, ZPZV<51>, ZPZV<51>, ZPZV<8>, ZPZV<70>, ZPZV<52>, ZPZV<3»; }; // NOLINT</pre>
03195 template<> struct ConwayPolynomial<89, 13> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZ
                        ZPZV<17>, ZPZV<86»; }; // NOLINT</pre>
03196 template<> struct ConwayPolynomial<89, 17> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
                        ZPZV<0>, ZPZ
03198 template<> struct ConwayPolynomial<97, 1> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                       ZPZV<92»; }; // NOLINT</pre>
03199 template<> struct ConwayPolynomial<97, 2> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                        ZPZV<96>, ZPZV<5»; }; // NOLINT
 03200 template<> struct ConwayPolynomial<97, 3> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<9>, ZPZV<92»; }; // NOLINT</pre>
 03201 template<> struct ConwayPolynomial<97, 4> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<6>, ZPZV<80>, ZPZV<5»; }; // NOLINT
03202 template<> struct ConwayPolynomial<97, 5> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3
 03204 template<> struct ConwayPolynomial<97, 7> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<92»; }; // NOLINT
03205 template<> struct ConwayPolynomial<97, 8> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<65>, ZPZV<1>, ZPZV<32>, ZPZV<5»; }; // NOLINT
03206 template<> struct ConwayPolynomial<97, 9> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<5>, ZPZV<5>, ZPZV<7>, ZPZV<92»; }; // NOLINT
03207 template<> struct ConwayPolynomial<97, 10> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<22>, ZPZV<66>, ZPZV<34>, ZPZV<34>, ZPZV<20>, ZPZV<5»; };</pre>
                        NOLINT
03208 template<> struct ConwayPolynomial<97, 11> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<5>, ZPZV<92»; };</pre>
03209 template<> struct ConwayPolynomial<97, 12> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<30>, ZPZV<59>, ZPZV<81>, ZPZV<86>, ZPZV<86>, ZPZV<78>,
                        ZPZV<94>, ZPZV<5»; }; // NOLINT
 03210 template<> struct ConwayPolynomial<97, 13> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>
                        ZPZV<3>, ZPZV<92»; }; // NOLINT</pre>
 03211 template<> struct ConwayPolynomial<97, 17> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<92»; }; // NOLINT
03212 template<> struct ConwayPolynomial<97, 19> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0 , ZPZ
03213 template<> struct ConwayPolynomial<101, 1> { using ZPZ = aerobus::zpz<101>; using type =
                        POLYV<ZPZV<1>, ZPZV<99»; }; // NOLINT
03214 template<> struct ConwayPolynomial<101, 2> { using ZPZ = aerobus::zpz<101>; using type =
                       POLYV<ZPZV<1>, ZPZV<97>, ZPZV<2»; }; // NOLINT
03215 template<> struct ConwayPolynomial<101, 3> { using ZPZ = aerobus::zpz<101>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<99»; }; // NOLINT
 03216 template<> struct ConwayPolynomial<101, 4> { using ZPZ = aerobus::zpz<101>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<78>, ZPZV<2»; }; // NOLINT
03217 template<> struct ConwayPolynomial<101, 5> { using ZPZ = aerobus::zpz<101>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<99»; }; // NOLINT
 03218 template<> struct ConwayPolynomial<101, 6> { using ZPZ = aerobus::zpz<101>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<90>, ZPZV<20>, ZPZV<67>, ZPZV<2»; }; // NOLINT
 03219 template<> struct ConwayPolynomial<101, 7> { using ZPZ = aerobus::zpz<101>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<99»; };
03220 template<> struct ConwayPolynomial<101, 8> { using ZPZ = aerobus::zpz<101>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<76>, ZPZV<29>, ZPZV<24>, ZPZV<29 , ZPZV<24, ZPZV<29 , ZPZV<29 , ZPZV<24 , ZPZV<29 , ZPZV<29 , ZPZV<29 , ZPZV<29 , ZPZV<20 , ZPZV<2
                        NOLTNT
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03221 template<> struct ConwayPolynomial<101, 9> { using ZPZ = aerobus::zpz<101>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<64>, ZPZV<47>, ZPZV<99»; };
                        // NOLINT
 03222 template<> struct ConwayPolynomial<101, 10> { using ZPZ = aerobus::zpz<101>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<57>, ZPZV<49>, ZPZV<100>, ZPZV<100>, ZPZV<52>,
                       ZPZV<2»; }; // NOLINT
03223 template<> struct ConwayPolynomial<101, 11> { using ZPZ = aerobus::zpz<101>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
                       ZPZV<31>, ZPZV<99»; }; // NOLINT</pre>
03224 template<> struct ConwayPolynomial<101, 12> { using ZPZ = aerobus::zpz<101>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<64>, ZPZV<64>, ZPZV<39>, ZPZV<78>, ZPZV<48>, ZPZV<84>, ZPZV<21>, ZPZV<22>; }; // NOLINT
03225 template<> struct ConwayPolynomial<101, 13> { using ZPZ = aerobus::zpz<101>; using type
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                       ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<99»; }; // NOLINT</pre>
03226 template<> struct ConwayPolynomial<101, 17> { using ZPZ = aerobus::zpz<101>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , ZPZV<0
                       ZPZV<0>, ZPZV<0</pre>
                       NOLINT
03228 template<> struct ConwayPolynomial<103, 1> { using ZPZ = aerobus::zpz<103>; using type =
                      POLYV<ZPZV<1>. ZPZV<98»: }: // NOLINT
03229 template<> struct ConwayPolynomial<103, 2> { using ZPZ = aerobus::zpz<103>; using type =
                       POLYV<ZPZV<1>, ZPZV<102>, ZPZV<5»; }; // NOLINT
 03230 template<> struct ConwayPolynomial<103, 3> { using ZPZ = aerobus::zpz<103>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<98»; }; // NOLINT
03231 template<> struct ConwayPolynomial<103, 4> { using ZPZ = aerobus::zpz<103>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<88>, ZPZV<5»; }; // NOLINT
03232 template<> struct ConwayPolynomial<103, 5> { using ZPZ = aerobus::zpz<103>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<98»; }; // NOLINT
 03233 template<> struct ConwayPolynomial<103, 6> { using ZPZ = aerobus::zpz<103>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<96>, ZPZV<9>, ZPZV<30>, ZPZV<5»; }; // NOLINI
 03234 template<> struct ConwayPolynomial<103, 7> { using ZPZ = aerobus::zpz<103>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<98»; };
03235 template<> struct ConwayPolynomial<103, 8> { using ZPZ = aerobus::zpz<103>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<70>, ZPZV<71>, ZPZV<49>, ZPZV<49>, ZPZV<5»; }; //
03236 template<> struct ConwayPolynomial<103, 9> { using ZPZ = aerobus::zpz<103>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<97>, ZPZV<51>, ZPZV<98»; };
                        // NOLINT
03237 template<> struct ConwayPolynomial<103, 10> { using ZPZ = aerobus::zpz<103>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<101>, ZPZV<86>, ZPZV<101>, ZPZV<94>, ZPZV<11>,
                       ZPZV<5»; }; // NOLINT</pre>
03238 template<> struct ConwayPolynomial<103, 11> { using ZPZ = aerobus::zpz<103>; using type
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<98»; }; // NOLINT
03239 template<> struct ConwayPolynomial<103, 12> { using ZPZ = aerobus::zpz<103>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<74>, ZPZV<23>, ZPZV<94>, ZPZV<20>, ZPZV<81>,
                       ZPZV<29>, ZPZV<88>, ZPZV<5»; };</pre>
                                                                                                                                              // NOLINT
 03240 template<> struct ConwayPolynomial<103, 13> { using ZPZ = aerobus::zpz<103>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<98»; }; // NOLINT
03241 template<> struct ConwayPolynomial<103, 17> { using ZPZ = aerobus::zpz<103>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<102>, ZPZV<8>, ZPZV<98», }, // NOLINT</pre>
 03242 template<> struct ConwayPolynomial<103, 19> { using ZPZ = aerobus::zpz<103>; using type =
                       POLÝV<ZPZV<1>, ZPZV<0>, ZPZV<0
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<98*; };</pre>
                       NOLINT
03243 template<> struct ConwayPolynomial<107, 1> { using ZPZ = aerobus::zpz<107>; using type =
                       POLYV<ZPZV<1>, ZPZV<105»; }; // NOLINT
03244 template<> struct ConwayPolynomial<107, 2> { using ZPZ = aerobus::zpz<107>; using type = POLYV<ZPZV<1>, ZPZV<103>, ZPZV<2»; }; // NOLINT
03245 template<> struct ConwayPolynomial<107, 3> { using ZPZ = aerobus::zpz<107>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<105»; // NOLINT

03246 template<> struct ConwayPolynomial<107, 4> { using ZPZ = aerobus::zpz<107>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<13>, ZPZV<79>, ZPZV<2»; }; // NOLINT

03247 template<> struct ConwayPolynomial<107, 5> { using ZPZ = aerobus::zpz<107>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<105»; }; // NOLINT
 03248 template<> struct ConwayPolynomial<107, 6> { using ZPZ = aerobus::zpz<107>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<52>, ZPZV<22>, ZPZV<79>, ZPZV<2»; }; // NOLINT 03249 template<> struct ConwayPolynomial<107, 7> { using ZPZ = aerobus::zpz<107>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<16>, ZPZV<16>, ZPZV<105»; }; // NOLINT
 03250 template<> struct ConwayPolynomial<107, 8> { using ZPZ = aerobus::zpz<107>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<105>, ZPZV<24>, ZPZV<95>, ZPZV<2»; };
03251 template<> struct ConwayPolynomial<107, 9> { using ZPZ = aerobus::zpz<107>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<36>, ZPZV<66>, ZPZV<105»; };
                        // NOLINT
03252 template<> struct ConwayPolynomial<107, 10> { using ZPZ = aerobus::zpz<107>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<94>, ZPZV<61>, ZPZV<83>, ZPZV<83>, ZPZV<95>,
                       ZPZV<2»; }; // NOLINT</pre>
03253 template<> struct ConwayPolynomial<107, 11> { using ZPZ = aerobus::zpz<107>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                       ZPZV<8>, ZPZV<105»; }; // NOLINT
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03254 template<> struct ConwayPolynomial<107, 12> { using ZPZ = aerobus::zpz<107>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<37>, ZPZV<48>, ZPZV<6>, ZPZV<61>, ZPZV<42>, ZPZV<57>, ZPZV<2»; }; // NOLINT
 03255 template<> struct ConwayPolynomial<107, 13> { using ZPZ = aerobus::zpz<107>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                                 ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<105»; };</pre>
                                                                                                                                                                                                                                                         // NOLINT
 03256 template<> struct ConwayPolynomial<107, 17> { using ZPZ = aerobus::zpz<107>; using type
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03258 template<> struct ConwayPolynomial<109, 1> { using ZPZ = aerobus::zpz<109>; using type =
                                POLYV<ZPZV<1>, ZPZV<103»; }; // NOLINT
 03259 template<> struct ConwayPolynomial<109, 2> { using ZPZ = aerobus::zpz<109>; using type =
POLYV<ZPZV<1>, ZPZV<108>, ZPZV<6»; }; // NOLINT
03260 template<> struct ConwayPolynomial<109, 3> { using ZPZ = aerobus::zpz<109>; using type =
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<103»; }; // NOLINT
03261 template<> struct ConwayPolynomial<109, 4> { using ZPZ = aerobus::zpz<109>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<98>, ZPZV<6»; }; // NOLINT
03262 template<> struct ConwayPolynomial<109, 5> { using ZPZ = aerobus::zpz<109>; using type =
                                \verb"POLYV<ZPZV<1>, \verb"ZPZV<0>, \verb"ZPZV<0>, \verb"ZPZV<4>, \verb"ZPZV<103"; \verb"}; $ // \verb"NOLINT" | NOLINT" 
03263 template<> struct ConwayPolynomial<109, 6> { using ZPZ = aerobus::zpz<109>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<107>, ZPZV<102>, ZPZV<66>, ZPZV<66»; }; // NOLINT 03264 template<> struct ConwayPolynomial<109, 7> { using ZPZ = aerobus::zpz<109>; using type =
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<14>, ZPZV<103»; };
 03265 template<> struct ConwayPolynomial<109, 8> { using ZPZ = aerobus::zpz<109>; using type =
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<102>, ZPZV<34>, ZPZV<86>, ZPZV<6»; }; //
                                NOLINT
03266 template<> struct ConwayPolynomial<109, 9> { using ZPZ = aerobus::zpz<109>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<87>, ZPZV<103»; };
 03267 template<> struct ConwayPolynomial<109, 10> { using ZPZ = aerobus::zpz<109>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<71>, ZPZV<55>, ZPZV<16>, ZPZV<75>, ZPZV<69>, ZPZV<6»; }; // NOLINT
03268 template<> struct ConwayPolynomial<109, 11> { using ZPZ = aerobus::zpz<109>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
                                 ZPZV<11>, ZPZV<103»; };</pre>
 03269 template<> struct ConwayPolynomial<109, 12> { using ZPZ = aerobus::zpz<109>; using type =
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<50>, ZPZV<55>, ZPZV<55>, ZPZV<37>, ZPZV<37>, ZPZV<65>,
                                ZPZV<103>, ZPZV<28>, ZPZV<6»; }; // NOLINT
03270 template<> struct ConwayPolynomial<109, 13> { using ZPZ = aerobus::zpz<109>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , 
                                ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<103»; }; // NOLINT</pre>
 03271 template<> struct ConwayPolynomial<109, 17> { using ZPZ = aerobus::zpz<109>; using type
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<103»; }; // NOLINT
03272 template<> struct ConwayPolynomial<109, 19> { using ZPZ = aerobus::zpz<109>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>
                                 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<15>, ZPZV<103w; }; //</pre>
 03273 template<> struct ConwayPolynomial<113, 1> { using ZPZ = aerobus::zpz<113>; using type =
                               POLYV<ZPZV<1>, ZPZV<110»; }; // NOLINT
 03274 template<> struct ConwayPolynomial<113, 2> { using ZPZ = aerobus::zpz<113>; using type =
POLYV<ZPZV<1>, ZPZV<101>, ZPZV<3»; }; // NOLINT
03275 template<> struct ConwayPolynomial<113, 3> { using ZPZ = aerobus::zpz<113>; using type =
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<110»; }; // NOLINT
 03276 template<> struct ConwayPolynomial<113, 4> { using ZPZ = aerobus::zpz<113>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<62>, ZPZV<3»; }; // NOLINT
03277 template<> struct ConwayPolynomial<113, 5> { using ZPZ = aerobus::zpz<113>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<110»; }; // NOLINT
 03278 template<> struct ConwayPolynomial<113, 6> { using ZPZ = aerobus::zpz<113>; using type =
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<59>, ZPZV<30>, ZPZV<71>, ZPZV<3»; }; // NOLINT
 03279 template<> struct ConwayPolynomial<113, 7> { using ZPZ = aerobus::zpz<113>; using type
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<5110»; };
 03280 template<> struct ConwayPolynomial<113, 8> { using ZPZ = aerobus::zpz<113>; using type
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<98>, ZPZV<38>, ZPZV<28>, ZPZV<28»; }; //
 03281 template<> struct ConwayPolynomial<113, 9> { using ZPZ = aerobus::zpz<113>; using type :
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<87>, ZPZV<87>, ZPZV<71>, ZPZV<110»; };
03282 template<> struct ConwayPolynomial<113, 10> { using ZPZ = aerobus::zpz<113>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<108>, ZPZV<57>, ZPZV<45>, ZPZV<83>, ZPZV<56>,
                                 ZPZV<3»; }; // NOLINT</pre>
 03283 template<> struct ConwayPolynomial<113, 11> { using ZPZ = aerobus::zpz<113>; using type
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                                 ZPZV<3>, ZPZV<110»; }; // NOLINT</pre>
03284 template<> struct ConwayPolynomial<113, 12> { using ZPZ = aerobus::zpz<113>; using type =
                               POLYV<ZPZV<1>, ZPZV<2>, ZPZV<3>, ZPZV<3>, ZPZV<3>, ZPZV<4>, ZPZV<56>, ZPZV<40, ZPZV<56>, ZPZV<40, ZPZV<56>, ZPZV<40, ZPZV<56>, ZPZV<56>, ZPZV<56>, ZPZV<56>, ZPZV<57, ZPZV<57, ZPZV<58, ZPZV<58, ZPZV<57, ZPZV<58, ZPZV<58,
03285 template<> struct ConwayPolynomial<113, 13> { using ZPZ = aerobus::zpz<113>; using type
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                                 ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<110»; };</pre>
                                                                                                                                                                                                                                                        // NOLINT
03286 template<> struct ConwayPolynomial<113, 17> { using ZPZ = aerobus::zpz<113>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<110»; }; // NOLINT
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03287 template<> struct ConwayPolynomial<113, 19> { using ZPZ = aerobus::zpz<113>; using type
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<110»; }; //</pre>
                             NOLINT
03288 template<> struct ConwayPolynomial<127, 1> { using ZPZ = aerobus::zpz<127>; using type =
                             POLYV<ZPZV<1>, ZPZV<124»; }; // NOLINT
 03289 template<> struct ConwayPolynomial<127, 2> { using ZPZ = aerobus::zpz<127>; using type =
                             POLYV<ZPZV<1>, ZPZV<126>, ZPZV<3»; };
                                                                                                                                                                                                                  // NOLINT
 03290 template<> struct ConwayPolynomial<127, 3> { using ZPZ = aerobus::zpz<127>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<124»; }; // NOLINT
03291 template<> struct ConwayPolynomial<127, 4> { using ZPZ = aerobus::zpz<127>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<97>, ZPZV<3»; }; // NOLINT
03292 template<> struct ConwayPolynomial<127, 5> { using ZPZ = aerobus::zpz<127>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<124»; }; // NOLINT
 03293 template<> struct ConwayPolynomial<127, 6> { using ZPZ = aerobus::zpz<127>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<84>, ZPZV<115>, ZPZV<82>, ZPZV<3»; }; // NOLINT 03294 template<> struct ConwayPolynomial<127, 7> { using ZPZ = aerobus::zpz<127>; using type :
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0, ZPZV<15>, ZPZV<124»; }; // NOLINT 03295 template<> struct ConwayPolynomial<127, 8> { using ZPZ = aerobus::zpz<127>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<104>, ZPZV<55>, ZPZV<8>, ZPZV<3»; };
03296 template<> struct ConwayPolynomial<127, 9> { using ZPZ = aerobus::zpz<127>; using type :
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12+»;
                              }: // NOLINT
03297 template<> struct ConwayPolynomial<127, 10> { using ZPZ = aerobus::zpz<127>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<107>, ZPZV<64>, ZPZV<95>, ZPZV<60>, ZPZV<4>,
                              ZPZV<3»; }; // NOLINT</pre>
 03298 template<> struct ConwayPolynomial<127, 11> { using ZPZ = aerobus::zpz<127>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                             ZPZV<11>, ZPZV<124»: }; // NOLINT</pre>
03299 template<> struct ConwayPolynomial<127, 12> { using ZPZ = aerobus::zpz<127>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<119>, ZPZV<25>, ZPZV<33>, ZPZV<97>, ZPZV<15>,
                              ZPZV<99>, ZPZV<8>, ZPZV<3»; }; // NOLINT</pre>
 03300 template<> struct ConwayPolynomial<127, 13> { using ZPZ = aerobus::zpz<127>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<124»; }; // NOLINT

03301 template<> struct ConwayPolynomial<127, 17> { using ZPZ = aerobus::zpz<127>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<124*; }; // NOLINT</pre>
03302 template<> struct ConwayPolynomial<127, 19> { using ZPZ = aerobus::zpz<127>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                             ZPZV<0>, ZPZV<30>, ZPZV<30>, ZPZV<124»; }; //</pre>
                             NOLINT
03303 template<> struct ConwayPolynomial<131, 1> { using ZPZ = aerobus::zpz<131>; using type =
                            POLYV<ZPZV<1>, ZPZV<129»; }; // NOLINT
 03304 template<> struct ConwayPolynomial<131, 2> { using ZPZ = aerobus::zpz<131>; using type =
                            POLYV<ZPZV<1>, ZPZV<127>, ZPZV<2»; }; // NOLINT
 03305 template<> struct ConwayPolynomial<131, 3> { using ZPZ = aerobus::zpz<131>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<129»; }; // NOLINT
 03306 template<> struct ConwayPolynomial<131, 4> { using ZPZ = aerobus::zpz<131>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<9>, ZPZV<10>, ZPZV<2»; }; // NOLINT
03307 template<> struct ConwayPolynomial<131, 5> { using ZPZ = aerobus::zpz<131>; using type =
                             \verb"POLYV<ZPZV<1>, \verb"ZPZV<0>, \verb"ZPZV<0>, \verb"ZPZV<19>, \verb"ZPZV<129"; \verb"}; $ // \verb"NOLINT" | NOLINT" | NOLINT | NOL
03308 template<> struct ConwayPolynomial<131, 6> { using ZPZ = aerobus::zpz<131>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<66>, ZPZV<4>, ZPZV<2>, ZPZV<2>, ZPZV<2>; // NOLINT 03309 template<> struct ConwayPolynomial<131, 7> { using ZPZ = aerobus::zpz<131>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<10>, ZPZV<10>, ZPZV<129»; }; // NOLINT
 03310 template<> struct ConwayPolynomial<131, 8> { using ZPZ = aerobus::zpz<131>; using type
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<72>, ZPZV<116>, ZPZV<104>, ZPZV<2»; }; //
                             NOT.TNT
03311 template<> struct ConwayPolynomial<131, 9> { using ZPZ = aerobus::zpz<131>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<19>, ZPZV<19>,
                                // NOLINT
03312 template<> struct ConwayPolynomial<131, 10> { using ZPZ = aerobus::zpz<131>; using type
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<124>, ZPZV<97>, ZPZV<97>, ZPZV<126>, ZPZV<44>,
                             ZPZV<2»; }; // NOLINT</pre>
03313 template<> struct ConwayPolynomial<131, 11> { using ZPZ = aerobus::zpz<131>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
 03314 template<> struct ConwayPolynomial<131, 12> { using ZPZ = aerobus::zpz<131>; using type
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<50>, ZPZV<50>, ZPZV<122>, ZPZV<40>, ZPZV<83>, ZPZV<125>,
                             ZPZV<28>, ZPZV<103>, ZPZV<2»; }; // NOLINT</pre>
 03315 template<> struct ConwayPolynomial<131, 13> { using ZPZ = aerobus::zpz<131>; using type
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<129»; }; // NOLINT
03316 template<> struct ConwayPolynomial<131, 17> { using ZPZ = aerobus::zpz<131>; using type
                             POLYV<2PZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<129»; }; // NOLINT 03317 template<> struct ConwayPolynomial<131, 19> { using ZPZ = aerobus::zpz<131>; using type
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03318 template<> struct ConwayPolynomial<137, 1> { using ZPZ = aerobus::zpz<137>; using type =
                            POLYV<ZPZV<1>, ZPZV<134»; }; // NOLINT
 03319 template<> struct ConwayPolynomial<137, 2> { using ZPZ = aerobus::zpz<137>; using type =
 POLYV<ZPZV<1>, ZPZV<131>, ZPZV<3»; }; // NOLINT
03320 template<> struct ConwayPolynomial<137, 3> { using ZPZ = aerobus::zpz<137>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<134»; };
03321 template<> struct ConwayPolynomial<137, 4> { using ZPZ = aerobus::zpz<137>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<95>, ZPZV<3»; }; // NOLINT
03322 template<> struct ConwayPolynomial<137, 5> { using ZPZ = aerobus::zpz<137>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<134»; }; // NOLINT
03323 template<> struct ConwayPolynomial<137, 6> { using ZPZ = aerobus::zpz<137>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<116>, ZPZV<102>, ZPZV<3>, ZPZV<3»; }; // NOLINT
 03324 template<> struct ConwayPolynomial<137, 7> { using ZPZ = aerobus::zpz<137>; using type
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<134»; };
 03325 template<> struct ConwayPolynomial<137, 8> { using ZPZ = aerobus::zpz<137>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<105>, ZPZV<21>, ZPZV<34>, ZPZV<33*; }; //
                      NOLINT
03326 template<> struct ConwayPolynomial<137, 9> { using ZPZ = aerobus::zpz<137>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<80>, ZPZV<80>, ZPZV<122>, ZPZV<134»;
                       }; // NOLINT
03327 template<> struct ConwayPolynomial<137, 10> { using ZPZ = aerobus::zpz<137>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<20>, ZPZV<20>, ZPZV<67>, ZPZV<93>, ZPZV<119>,
                      ZPZV<3»; }; // NOLINT</pre>
03328 template<> struct ConwayPolynomial<137, 11> { using ZPZ = aerobus::zpz<137>; using type
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                      ZPZV<1>, ZPZV<134»; }; // NOLINT</pre>
03329 template<> struct ConwayPolynomial<137, 12> { using ZPZ = aerobus::zpz<137>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<61>, ZPZV<40>, ZPZV<40>, ZPZV<36>, ZPZV<61>, ZPZV<40>, ZPZV<40>, ZPZV<12>, ZPZV<36>, ZPZV<135>, ZPZV<61>, ZPZV<61>, ZPZV<3»; }; // NOLINT
 03330 template<> struct ConwayPolynomial<137, 13> { using ZPZ = aerobus::zpz<137>; using type
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                      ZPZV<0>, ZPZV<0>, ZPZV<14>, ZPZV<134»; }; // NOLINT</pre>
 03331 template<> struct ConwayPolynomial<137, 17> { using ZPZ = aerobus::zpz<137>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , ZPZV<0
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<134»; }; //</pre>
                      NOLINT
03333 template<> struct ConwayPolynomial<139, 1> { using ZPZ = aerobus::zpz<139>; using type =
                     POLYV<ZPZV<1>, ZPZV<137»; }; // NOLINT
03334 template<> struct ConwayPolynomial<139, 2> { using ZPZ = aerobus::zpz<139>; using type =
                     POLYV<ZPZV<1>, ZPZV<138>, ZPZV<2»; }; // NOLINT
 03335 template<> struct ConwayPolynomial<139, 3> { using ZPZ = aerobus::zpz<139>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<137»; }; // NOLINT
 03336 template<> struct ConwayPolynomial<139, 4> { using ZPZ = aerobus::zpz<139>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<96>, ZPZV<2»; }; // NOLINT
03337 template<> struct ConwayPolynomial<139, 5> { using ZPZ = aerobus::zpz<139>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<137»; }; // NOLINT
 03338 template<> struct ConwayPolynomial<139, 6> { using ZPZ = aerobus::zpz<139>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<46>, ZPZV<10>, ZPZV<118>, ZPZV<2»; }; // NOLINT
 03339 template<> struct ConwayPolynomial<139, 7> { using ZPZ = aerobus::zpz<139>; using type =
                    POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<9>, ZPZV<137»; }; // NOLINT
03340 template<> struct ConwayPolynomial<139, 8> { using ZPZ = aerobus::zpz<139>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<103>, ZPZV<36>, ZPZV<21>, ZPZV<2>; }; //
 03341 template<> struct ConwayPolynomial<139, 9> { using ZPZ = aerobus::zpz<139>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<70>, ZPZV<70>, ZPZV<87>, ZPZV<137»; };
                        // NOLINT
03342 template<> struct ConwayPolynomial<139, 10> { using ZPZ = aerobus::zpz<139>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<66>, ZPZV<110>, ZPZV<48>, ZPZV<130>, ZPZV<66>, ZPZV<106>, ZPZV<2»; }; // NOLINT
 03343 template<> struct ConwayPolynomial<139, 11> { using ZPZ = aerobus::zpz<139>; using type
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03344 template<> struct ConwayPolynomial<139, 12> { using ZPZ = aerobus::zpz<139>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<120>, ZPZV<41>, ZPZV<41>, ZPZV<77>, ZPZV<106>, ZPZV<8>, ZPZV<8>, ZPZV<10, ZPZV<10>, ZPZV<10
 03345 template<> struct ConwayPolynomial<139, 13> { using ZPZ = aerobus::zpz<139>; using type
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                      ZPZV<0>, ZPZV<0>, ZPZV<22>, ZPZV<137»; }; // NOLINT</pre>
 03346 template<> struct ConwayPolynomial<139, 17> { using ZPZ = aerobus::zpz<139>; using type =
                     POLYVCZPZVC1>, ZPZVCO>, ZPZVCO
 03347 template<> struct ConwayPolynomial<139, 19> { using ZPZ = aerobus::zpz<139>; using type
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<23>, ZPZV<137»; }; //</pre>
                      NOLINT
03348 template<> struct ConwayPolynomial<149, 1> { using ZPZ = aerobus::zpz<149>; using type =
                     POLYV<ZPZV<1>, ZPZV<147»; }; // NOLINT
 03349 template<> struct ConwayPolynomial<149, 2> { using ZPZ = aerobus::zpz<149>; using type =
                      POLYV<ZPZV<1>, ZPZV<145>, ZPZV<2»; }; // NOLINT
 03350 template<> struct ConwayPolynomial<149, 3> { using ZPZ = aerobus::zpz<149>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<147»; }; // NOLINT
03351 template<> struct ConwayPolynomial<149, 4> ( using ZPZ = aerobus::zpz<149>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<10>, ZPZV<10>, ZPZV<2); }; // NOLINT
03352 template<> struct ConwayPolynomial<149, 5> { using ZPZ = aerobus::zpz<149>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<147»; }; // NOLINT
 03353 template<> struct ConwayPolynomial<149, 6> { using ZPZ = aerobus::zpz<149>; using type =
 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<105>, ZPZV<33>, ZPZV<55>, ZPZV<2»; }; // NOLINT 03354 template<> struct ConwayPolynomial<149, 7> { using ZPZ = aerobus::zpz<149>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<19>, ZPZV<147»; }; //
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03355 template<> struct ConwayPolynomial<149, 8> { using ZPZ = aerobus::zpz<149>; using type
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<140>, ZPZV<25>, ZPZV<123>, ZPZV<22»; }; //
                             NOLTNT
03356 template<> struct ConwayPolynomial<149, 9> { using ZPZ = aerobus::zpz<149>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1A6>, ZPZV<1A6>, ZPZV<20>, ZPZV<144>,
                               }; // NOLINT
03357 template<> struct ConwayPolynomial<149, 10> { using ZPZ = aerobus::zpz<149>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<74>, ZPZV<42>, ZPZV<148>, ZPZV<143>, ZPZV<51>,
                              ZPZV<2»; }; // NOLINT</pre>
03358 template<> struct ConwayPolynomial<149, 11> { using ZPZ = aerobus::zpz<149>, using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03359 template<> struct ConwayPolynomial<149, 12> { using ZPZ = aerobus::zpz<149>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<121>, ZPZV<91>, ZPZV<52>, ZPZV<9>,
                              ZPZV<104>, ZPZV<110>, ZPZV<2»; }; // NOLINT</pre>
03360 template<> struct ConwayPolynomial<149, 13> { using ZPZ = aerobus::zpz<149>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                             ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<147»; };</pre>
                                                                                                                                                                                                                                     // NOLINT
03361 template<> struct ConwayPolynomial<149, 17> { using ZPZ = aerobus::zpz<149>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<247»; }; // NOLINT 03362 template<> struct ConwayPolynomial<149, 19> { using ZPZ = aerobus::zpz<149>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                              \texttt{ZPZV} < \texttt{0>, ZPZV} < \texttt{0
                             NOLINT
03363 template<> struct ConwayPolynomial<151, 1> { using ZPZ = aerobus::zpz<151>; using type =
                             POLYV<ZPZV<1>, ZPZV<145»; }; // NOLINT
03364 template<> struct ConwayPolynomial<151, 2> { using ZPZ = aerobus::zpz<151>; using type =
POLYV<ZPZV<1>, ZPZV<149>, ZPZV<6»; }; // NOLINT
03365 template<> struct ConwayPolynomial<151, 3> { using ZPZ = aerobus::zpz<151>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<145»; }; // NOLINT
03366 template<> struct ConwayPolynomial<151, 4> { using ZPZ = aerobus::zpz<151>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<13>, ZPZV<89>, ZPZV<6>; }; // NOLINT
03367 template<> struct ConwayPolynomial<151, 5> { using ZPZ = aerobus::zpz<151>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<11>, ZPZV<145»; }; // NOLINT
03368 template<> struct ConwayPolynomial<151, 6> { using ZPZ = aerobus::zpz<151>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<125>, ZPZV<18>, ZPZV<15>, ZPZV<6»; }; // NOLINT 03369 template<> struct ConwayPolynomial<151, 7> { using ZPZ = aerobus::zpz<151>; using type
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03370 template<> struct ConwayPolynomial<151, 8> { using ZPZ = aerobus::zpz<151>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<140>, ZPZV<122>, ZPZV<43>, ZPZV<6»; }; //
                             NOLINT
03371 template<> struct ConwayPolynomial<151, 9> { using ZPZ = aerobus::zpz<151>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<126>, ZPZV<126>, ZPZV<16>, ZPZV<145»;
 03372 template<> struct ConwayPolynomial<151, 10> { using ZPZ = aerobus::zpz<151>; using type
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<21>, ZPZV<104>, ZPZV<49>, ZPZV<20>, ZPZV<142>, ZPZV<6»; }; // NOLINT
03373 template<> struct ConwayPolynomial<151, 11> { using ZPZ = aerobus::zpz<151>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                              ZPZV<1>, ZPZV<145»; };</pre>
                                                                                                                                                // NOLINT
 03374 template<> struct ConwayPolynomial<151, 12> { using ZPZ = aerobus::zpz<151>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<109>, ZPZV<121>, ZPZV<101>, ZPZV<101>, ZPZV<6>, ZPZV<77>,
ZPZV<107>, ZPZV<147>, ZPZV<6»; }; // NOLINT
03375 template<> struct ConwayPolynomial<151, 13> { using ZPZ = aerobus::zpz<151>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03376 template<> struct ConwayPolynomial<151, 17> { using ZPZ = aerobus::zpz<151>; using type =
                              POLÝV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<24>, ZPZV<145»; }; // NOLINT
03377 template<> struct ConwayPolynomial<151, 19> { using ZPZ = aerobus::zpz<151>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , ZPZV<0
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<9</pre>
03378 template<> struct ConwayPolynomial<157, 1> { using ZPZ = aerobus::zpz<157>; using type =
                             POLYV<ZPZV<1>, ZPZV<152»; }; // NOLINT
 03379 template<> struct ConwayPolynomial<157, 2> { using ZPZ = aerobus::zpz<157>; using type =
POLYV<ZPZV<1>, ZPZV<152>, ZPZV<5»; }; // NOLINT
03380 template<> struct ConwayPolynomial<157, 3> { using ZPZ = aerobus::zpz<157>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<152»; }; // NOLINT
 03381 template<> struct ConwayPolynomial<157, 4> { using ZPZ = aerobus::zpz<157>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<136>, ZPZV<5»; }; // NOLINT
 03382 template<> struct ConwayPolynomial<157, 5> { using ZPZ = aerobus::zpz<157>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<152»; }; // NOLINT
03383 template<> struct ConwayPolynomial<157, 6> { using ZPZ = aerobus::zpz<157>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<130>, ZPZV<43>, ZPZV<144>, ZPZV<5»; }; // NOLINT
 03384 template<> struct ConwayPolynomial<157, 7> { using ZPZ = aerobus::zpz<157>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<14>, ZPZV<152»; }; // NOLINT
03385 template<> struct ConwayPolynomial<157, 8> { using ZPZ = aerobus::zpz<157>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<97>, ZPZV<40>, ZPZV<5»; };
                             NOLINT
03386 template<> struct ConwayPolynomial<157, 9> { using ZPZ = aerobus::zpz<157>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<114>, ZPZV<52>, ZPZV<152»;
                               }; // NOLINT
03387 template<> struct ConwayPolynomial<157, 10> { using ZPZ = aerobus::zpz<157>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<61>, ZPZV<22>, ZPZV<124>, ZPZV<61>, ZPZV<93>, ZPZV<5»; }; // NOLINT
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03388 template<> struct ConwayPolynomial<157, 11> { using ZPZ = aerobus::zpz<157>; using type
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03389 template<> struct ConwayPolynomial<157, 12> { using ZPZ = aerobus::zpz<157>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<77>, ZPZV<110>, ZPZV<72>, ZPZV<137>, ZPZV<43>,
                                 ZPZV<152>, ZPZV<57>, ZPZV<5»; }; // NOLINT</pre>
03390 template<> struct ConwayPolynomial<157, 13> { using ZPZ = aerobus::zpz<157>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , 
ZPZV<0>, ZPZV<156>, ZPZV<9>, ZPZV<152»; }; // NOLINT
03391 template<> struct ConwayPolynomial<157, 17> { using ZPZ = aerobus::zpz<157>; using type =
POLYY<ZPZY<1>, ZPZY<0>, ZPZY<0>; ZPZY<0
                                 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                                 ZPZV<0>, ZPZV<14>, ZPZV<152»; }; //</pre>
03393 template<> struct ConwayPolynomial<163, 1> { using ZPZ = aerobus::zpz<163>; using type =
                               POLYV<ZPZV<1>, ZPZV<161»; }; // NOLINT
 03394 template<> struct ConwayPolynomial<163, 2> { using ZPZ = aerobus::zpz<163>; using type =
                                POLYV<ZPZV<1>, ZPZV<159>, ZPZV<2»; }; // NOLINT
 03395 template<> struct ConwayPolynomial<163, 3> { using ZPZ = aerobus::zpz<163>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<161»; }; // NOLINT
03396 template<> struct ConwayPolynomial<163, 4> { using ZPZ = aerobus::zpz<163>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<91>, ZPZV<2»; }; // NOLINT
03397 template<> struct ConwayPolynomial<163, 5> { using ZPZ = aerobus::zpz<163>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<161»; }; // NOLINT
 03398 template<> struct ConwayPolynomial<163, 6> { using ZPZ = aerobus::zpz<163>; using type =
                                \texttt{POLYV} < \texttt{ZPZV} < 1 >, \ \texttt{ZPZV} < 0 >, \ \texttt{ZPZV} < 0 >, \ \texttt{ZPZV} < 8 >, \ \texttt{ZPZV} < 25 >, \ \texttt{ZPZV} < 156 >, \ \texttt{ZPZV} < 2 >; \ \ \}; \ \ \ // \ \ \texttt{NOLINT} 
 03399 template<> struct ConwayPolynomial<163, 7> { using ZPZ = aerobus::zpz<163>; using type
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<161»; };
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // NOLINT
03400 template<> struct ConwayPolynomial<163, 8> { using ZPZ = aerobus::zpz<163>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<132>, ZPZV<83>, ZPZV<6>, ZPZV<2»; };
 03401 template<> struct ConwayPolynomial<163, 9> { using ZPZ = aerobus::zpz<163>; using type =
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<162>, ZPZV<162>, ZPZV<1261»;
                                  }; // NOLINT
03402 template<> struct ConwayPolynomial<163, 10> { using ZPZ = aerobus::zpz<163>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<111>, ZPZV<120>, ZPZV<125>, ZPZV<15>, ZPZV<0>,
                                 ZPZV<2»; }; // NOLINT</pre>
O3403 template<> struct ConwayPolynomial<163, 11> { using ZPZ = aerobus::zpz<163>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<161»; }; // NOLINT
03404 template<> struct ConwayPolynomial<163, 12> { using ZPZ = aerobus::zpz<163>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<39>, ZPZV<112>, ZPZV<31>, ZPZV<38>, ZPZV<103>, ZPZV<10>, ZPZV<69>, ZPZV<2»; }; // NOLINT
 03405 template<> struct ConwayPolynomial<163, 13> { using ZPZ = aerobus::zpz<163>; using type
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<24>, ZPZV<161»; }; // NOLINT
03406 template<> struct ConwayPolynomial<163, 17> { using ZPZ = aerobus::zpz<163>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZP
ZPZV<0>, ZPZV<1>, ZPZV<161s; }; // NOLINT 03407 template<> struct ConwayPolynomial<163, 19> { using ZPZ = aerobus::zpz<163>; using type =
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>,
                                 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<161»; }; //</pre>
                                NOLINT
03408 template<> struct ConwayPolynomial<167, 1> { using ZPZ = aerobus::zpz<167>; using type =
                                POLYV<ZPZV<1>, ZPZV<162»; }; // NOLINT
 03409 template<> struct ConwayPolynomial<167, 2> { using ZPZ = aerobus::zpz<167>; using type =
POLYV<ZPZV<1>, ZPZV<166>, ZPZV<5»; }; // NOLINT
03410 template<> struct ConwayPolynomial<167, 3> { using ZPZ = aerobus::zpz<167>; using type =
POLYV<ZPZV<1>, ZPZV<7>, ZPZV<162»; }; // NOLINT

03411 template<> struct ConwayPolynomial<167, 4> { using ZPZ = aerobus::zpz<167>; using type =
 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<120>, ZPZV<5»; }; // NOLINT
03412 template<> struct ConwayPolynomial<167, 5> { using ZPZ = aerobus::zpz<167>; using type =
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<162»; }; // NOLINT
 03413 template<> struct ConwayPolynomial<167, 6> { using ZPZ = aerobus::zpz<167>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<75>, ZPZV<38>, ZPZV<2>, ZPZV<5»; }; // NOLINT 03414 template<> struct ConwayPolynomial<167, 7> { using ZPZ = aerobus::zpz<167>; using type :
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<1
 03415 template<> struct ConwayPolynomial<167, 8> { using ZPZ = aerobus::zpz<167>; using type
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<149>, ZPZV<56>, ZPZV<113>, ZPZV<5»; }; //
                                NOLINT
03416 template<> struct ConwayPolynomial<167, 9> { using ZPZ = aerobus::zpz<167>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<165>, ZPZV<165>, ZPZV<165>, ZPZV<162»;
                                 }; // NOLINT
 03417 template<> struct ConwayPolynomial<167, 10> { using ZPZ = aerobus::zpz<167>; using type
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<68>, ZPZV<68>, ZPZV<109>, ZPZV<143>,
ZPZV<148>, ZPZV<5»; }; // NOLINT

03418 template<> struct ConwayPolynomial<167, 11> { using ZPZ = aerobus::zpz<167>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03419 template<> struct ConwayPolynomial<167, 12> { using ZPZ = aerobus::zpz<167>; using type
                                 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<142>, ZPZV<16>, ZPZV<142>, ZPZV<
ZPZV<140>, ZPZV<41>, ZPZV<57>, ZPZV<5»; }; // NOLINT
03420 template<> struct ConwayPolynomial<167, 13> { using ZPZ = aerobus::zpz<167>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
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03421 template<> struct ConwayPolynomial<167, 17> { using ZPZ = aerobus::zpz<167>; using type
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                            03422 template<> struct ConwayPolynomial<167, 19> { using ZPZ = aerobus::zpz<167>, using type =
                            POLYYCZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<10>, ZPZV<1>, ZPZV<10>, ZPZV<1>, ZPZV<10>, ZPZV<1>, ZPZV<10>, 
 03423 template<> struct ConwayPolynomial<173, 1> { using ZPZ = aerobus::zpz<173>; using type
                            POLYV<ZPZV<1>, ZPZV<171»; }; // NOLINT
 03424 template<> struct ConwayPolynomial<173, 2> { using ZPZ = aerobus::zpz<173>; using type =
POLYV<ZPZV<1>, ZPZV<169>, ZPZV<2»; }; // NOLINT
03425 template<> struct ConwayPolynomial<173, 3> { using ZPZ = aerobus::zpz<173>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<171»; }; // NOLINT
 03426 template<> struct ConwayPolynomial<173, 4> { using ZPZ = aerobus::zpz<173>; using type =
POLYV<ZPZV<1>, ZPZV<1>, ZPZV<10>, ZPZV<20>; }; // NOLINT
03427 template<> struct ConwayPolynomial<173, 5> { using ZPZ = aerobus::zpz<173>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<171»; }; // NOLINT
03428 template<> struct ConwayPolynomial<173, 6> { using ZPZ = aerobus::zpz<173>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<27>, ZPZV<134>, ZPZV<107>, ZPZV<2»; }; // NOLINT
 03429 template<> struct ConwayPolynomial<173, 7> { using ZPZ = aerobus::zpz<173>; using type
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<171»; };
 03430 template<> struct ConwayPolynomial<173, 8> { using ZPZ = aerobus::zpz<173>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<125>, ZPZV<158>, ZPZV<27>, ZPZV<2»; }; //
                            NOLINT
03431 template<> struct ConwayPolynomial<173, 9> { using ZPZ = aerobus::zpz<173>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<56>, ZPZV<104>, ZPZV<171»;
 03432 template<> struct ConwayPolynomial<173, 10> { using ZPZ = aerobus::zpz<173>; using type
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<164>, ZPZV<164>, ZPZV<48>, ZPZV<106>, ZPZV<58>, ZPZV<2»; }; // NOLINT
O3433 template<> struct ConwayPolynomial<173, 11> { using ZPZ = aerobus::zpz<173>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<171»; }; // NOLINT
 03434 template<> struct ConwayPolynomial<173, 12> { using ZPZ = aerobus::zpz<173>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<29>, ZPZV<64>, ZPZV<46>, ZPZV<166>, ZPZV<0>,
                            ZPZV<159>, ZPZV<22>, ZPZV<2»; }; // NOLINT</pre>
03435 template<> struct ConwayPolynomial<173, 13> { using ZPZ = aerobus::zpz<173>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                             ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<171»; };</pre>
                                                                                                                                                                                                                             // NOLINT
03436 template<> struct ConwayPolynomial<173, 17> { using ZPZ = aerobus::zpz<173>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0 , ZPZ
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<171»; }; //</pre>
                            NOLINT
03438 template<> struct ConwayPolynomial<179, 1> { using ZPZ = aerobus::zpz<179>; using type =
                            POLYV<ZPZV<1>, ZPZV<177»; }; // NOLINT
03439 template<> struct ConwayPolynomial<179, 2> { using ZPZ = aerobus::zpz<179>; using type =
                            POLYV<ZPZV<1>, ZPZV<172>, ZPZV<2»; }; // NOLINT
03440 template<> struct ConwayPolynomial<179, 3> { using ZPZ = aerobus::zpz<179>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<177»; }; // NOLINT
 03441 template<> struct ConwayPolynomial<179, 4> { using ZPZ = aerobus::zpz<179>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<109>, ZPZV<2»; }; // NOLINT
03442 template<> struct ConwayPolynomial<179, 5> { using ZPZ = aerobus::zpz<179>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<1779; // NOLINT
03443 template<> struct ConwayPolynomial<179, 6> { using ZPZ = aerobus::zpz<179>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<91>, ZPZV<55>, ZPZV<109>, ZPZV<2»; }; // NOLINT
 03444 template<> struct ConwayPolynomial<179, 7> { using ZPZ = aerobus::zpz<179>; using type
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<177»; };
03445 template<> struct ConwayPolynomial<179, 8> { using ZPZ = aerobus::zpz<179>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<163>, ZPZV<144>, ZPZV<73>, ZPZV<2»; }; //
                            NOLINT
03446 template<> struct ConwayPolynomial<179, 9> { using ZPZ = aerobus::zpz<179>; using type :
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<40>, ZPZV<40>, ZPZV<40>, ZPZV<54>, ZPZV<54
                              // NOLINT
03447 template<> struct ConwayPolynomial<179, 10> { using ZPZ = aerobus::zpz<179>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<115>, ZPZV<71>, ZPZV<150>, ZPZV<49>, ZPZV<87>,
                            ZPZV<2»; }; // NOLINT</pre>
 03448 template<> struct ConwayPolynomial<179, 11> { using ZPZ = aerobus::zpz<179>; using type
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03449 template<> struct ConwayPolynomial<179, 12> { using ZPZ = aerobus::zpz<179>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<103>, ZPZV<83>, ZPZV<43>, ZPZV<46>, ZPZV<8>,
                             ZPZV<177>, ZPZV<1>, ZPZV<2»; }; // NOLINT</pre>
 03450 template<> struct ConwayPolynomial<179, 13> { using ZPZ = aerobus::zpz<179>; using type
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<18>, ZPZV<177»; }; // NOLINT
03451 template<> struct ConwayPolynomial<179, 17> { using ZPZ = aerobus::zpz<179>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<177»; }; //</pre>
 03453 template<> struct ConwayPolynomial<181, 1> { using ZPZ = aerobus::zpz<181>; using type =
                            POLYV<ZPZV<1>, ZPZV<179»; }; // NOLINT
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03454 template<> struct ConwayPolynomial<181, 2> { using ZPZ = aerobus::zpz<181>; using type =
POLYV<ZPZV<1>, ZPZV<177>, ZPZV<2»; }; // NOLINT
03455 template<> struct ConwayPolynomial<181, 3> { using ZPZ = aerobus::zpz<181>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<179»; }; // NOLINT
03456 template<> struct ConwayPolynomial<181, 4> { using ZPZ = aerobus::zpz<181>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<105>, ZPZV<2»; }; // NOLINT
03457 template<> struct ConwayPolynomial<181, 5> { using ZPZ = aerobus::zpz<181>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<21>, ZPZV<179»; }; // NOLINT
 03458 template<> struct ConwayPolynomial<181, 6> { using ZPZ = aerobus::zpz<181>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<177>, ZPZV<163>, ZPZV<169>, ZPZV<2»; }; // NOLINT 03459 template<> struct ConwayPolynomial<181, 7> { using ZPZ = aerobus::zpz<181>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<4>, ZPZV<179»; }; // NOLINT
03460 template<> struct ConwayPolynomial<181, 8> { using ZPZ = aerobus::zpz<181>; using type
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<108>, ZPZV<22>, ZPZV<149>, ZPZV<2»; }; //
                               NOLINT
03461 template<> struct ConwayPolynomial<181, 9> { using ZPZ = aerobus::zpz<181>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<107>, ZPZV<168>, ZPZV<179»;
                                ); // NOLINT
03462 template<> struct ConwayPolynomial<181, 10> { using ZPZ = aerobus::zpz<181>; using type
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<154>, ZPZV<104>, ZPZV<94>, ZPZV<57>, ZPZV<88>,
                                ZPZV<2»; }; // NOLINT</pre>
03463 template<> struct ConwayPolynomial<181, 11> { using ZPZ = aerobus::zpz<181>; using type = aerobus::zpz<181>; using typ
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03464 template<> struct ConwayPolynomial<181, 12> { using ZPZ = aerobus::zpz<181>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<141>, ZPZV<45>, ZPZV<122>,
ZPZV<175>, ZPZV<12>, ZPZV<10>, ZPZV<2»; }; // NOLINT
03465 template<> struct ConwayPolynomial<181, 13> { using ZPZ = aerobus::zpz<181>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<179»; }; // NOLINT

03466 template<> struct ConwayPolynomial<181, 17> { using ZPZ = aerobus::zpz<181>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZP
                                                                                                                                                                                                                                                                                                                                                                                           ZPZV<0>, ZPZV<0>, ZPZV<0>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1
, ZPZ
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                               NOLINT
03468 template<> struct ConwayPolynomial<191, 1> { using ZPZ = aerobus::zpz<191>; using type =
                               POLYV<ZPZV<1>, ZPZV<172»; }; // NOLINT
 03469 template<> struct ConwayPolynomial<191, 2> { using ZPZ = aerobus::zpz<191>; using type =
POLYV<ZPZV<1>, ZPZV<190>, ZPZV<190; }; // NOLINT
03470 template<> struct ConwayPolynomial<191, 3> { using ZPZ = aerobus::zpz<191>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<172»; }; // NOLINT
 03471 template<> struct ConwayPolynomial<191, 4> { using ZPZ = aerobus::zpz<191>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<100>, ZPZV<19»; }; // NOLINT
03472 template<> struct ConwayPolynomial<191, 5> { using ZPZ = aerobus::zpz<191>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<172»; }; // NOLINT
03473 template<> struct ConwayPolynomial<191, 6> { using ZPZ = aerobus::zpz<191>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<110>, ZPZV<10>, ZPZV<10>, ZPZV<19»; }; // NOLINT
03474 template<> struct ConwayPolynomial<191, 7> { using ZPZ = aerobus::zpz<191>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<14>, ZPZV<172»; }; //
 03475 template<> struct ConwayPolynomial<191, 8> { using ZPZ = aerobus::zpz<191>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<164>, ZPZV<139>, ZPZV<171>, ZPZV<19»; }; //
                               NOLINT
03476 template<> struct ConwayPolynomial<191, 9> { using ZPZ = aerobus::zpz<191>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6 , ZPZV<6
 03477 template<> struct ConwayPolynomial<191, 10> { using ZPZ = aerobus::zpz<191>; using type
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<74>, ZPZV<47>, ZPZV<173>, ZPZV<74>, ZPZV<156>, ZPZV<19»; }; // NOLINT
03478 template<> struct ConwayPolynomial<191, 11> { using ZPZ = aerobus::zpz<191>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03479 template<> struct ConwayPolynomial<191, 12> { using ZPZ = aerobus::zpz<191>; using type
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<79>, ZPZV<168>, ZPZV<25>, ZPZV<49>, ZPZV<90>,
                               ZPZV<7>, ZPZV<151>, ZPZV<19»; }; // NOLINT</pre>
 03480 template<> struct ConwayPolynomial<191, 13> { using ZPZ = aerobus::zpz<191>; using type
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03481 template<> struct ConwayPolynomial<191, 17> { using ZPZ = aerobus::zpz<191>; using type
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                               03482 template<> struct ConwayPolynomial<191, 19> { using ZPZ = aerobus::zpz<191>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
                                ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<190>, ZPZV<190>, ZPZV<2>, ZPZV<172»; }; //</pre>
 03483 template<> struct ConwayPolynomial<193, 1> { using ZPZ = aerobus::zpz<193>; using type =
                               POLYV<ZPZV<1>, ZPZV<188»; }; // NOLINT
 03484 template<> struct ConwayPolynomial<193, 2> { using ZPZ = aerobus::zpz<193>; using type =
POLYV<ZPZV<1>, ZPZV<192>, ZPZV<5»; }; // NOLINT
03485 template<> struct ConwayPolynomial<193, 3> { using ZPZ = aerobus::zpz<193>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<188»; }; // NOLINT
 03486 template<> struct ConwayPolynomial<193, 4> { using ZPZ = aerobus::zpz<193>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<148>, ZPZV<5»; }; // NOLINT
 03487 template<> struct ConwayPolynomial<193, 5> { using ZPZ = aerobus::zpz<193>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<188»; }; // NOLINT 03488 template<> struct ConwayPolynomial<193, 6> { using ZPZ = aerobus::zpz<193>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<149>, ZPZV<8>, ZPZV<172>, ZPZV<5»; }; // NOLINT
 03489 template<> struct ConwayPolynomial<193, 7> { using ZPZ = aerobus::zpz<193>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<188»; };
                                                                                                                                                                                                                                                                                                                                                                        // NOLINT
 03490 template<> struct ConwayPolynomial<193, 8> { using ZPZ = aerobus::zpz<193>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<145>, ZPZV<34>, ZPZV<154>, ZPZV<5»; }; //
                         NOT.TNT
03491 template<> struct ConwayPolynomial<193, 9> { using ZPZ = aerobus::zpz<193>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<168>, ZPZV<168>, ZPZV<27>, ZPZV<188»;
                          }; // NOLINT
03492 template<> struct ConwayPolynomial<193, 10> { using ZPZ = aerobus::zpz<193>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<20>, ZPZV<51>, ZPZV<77>, ZPZV<7>, ZPZV<89>,
                         ZPZV<5»; }; // NOLINT</pre>
03493 template<> struct ConwayPolynomial<193, 11> { using ZPZ = aerobus::zpz<193>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03494 template<> struct ConwayPolynomial<193, 12> { using ZPZ = aerobus::zpz<193>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<155>, ZPZV<52>, ZPZV<135>, ZPZV<152>,
ZPZV<90>, ZPZV<46>, ZPZV<28>, ZPZV<59; }; // NOLINT
03495 template<> struct ConwayPolynomial<193, 13> { using ZPZ = aerobus::zpz<193>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>,
                         ZPZV<0>, ZPZV<0>, ZPZV<39>, ZPZV<188»; }; // NOLINT</pre>
03496 template<> struct ConwayPolynomial<193, 17> { using ZPZ = aerobus::zpz<193>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                         ZPZV<0>, ZPZV<0>
                         NOLINT
03498 template<> struct ConwayPolynomial<197, 1> { using ZPZ = aerobus::zpz<197>; using type =
                        POLYV<ZPZV<1>, ZPZV<195»; }; // NOLINT
03499 template<> struct ConwayPolynomial<197, 2> { using ZPZ = aerobus::zpz<197>; using type =
 POLYV<ZPZV<1>, ZPZV<192>, ZPZV<2»; }; // NOLINT
03500 template<> struct ConwayPolynomial<197, 3> { using ZPZ = aerobus::zpz<197>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<195»; }; // NOLINT
 03501 template<> struct ConwayPolynomial<197, 4> { using ZPZ = aerobus::zpz<197>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<16>, ZPZV<124>, ZPZV<2»; }; // NOLINT
03502 template<> struct ConwayPolynomial<197, 5> { using ZPZ = aerobus::zpz<197>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<195»; }; // NOLINT
 03503 template<> struct ConwayPolynomial<197, 6> { using ZPZ = aerobus::zpz<197>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<124>, ZPZV<79>, ZPZV<173>, ZPZV<2»; }; // NOLINT
 03504 template<> struct ConwayPolynomial<197, 7> { using ZPZ = aerobus::zpz<197>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<195»; };
                                                                                                                                                                                                                                                                                                                                                                      // NOLINT
03505 template<> struct ConwayPolynomial<197, 8> { using ZPZ = aerobus::zpz<197>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<176>, ZPZV<96>, ZPZV<29>, ZPZV<2»; }; //
03506 template<> struct ConwayPolynomial<197, 9> { using ZPZ = aerobus::zpz<197>; using type
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<127>, ZPZV<8>, ZPZV<195»;
                         }; // NOLINT
03507 template<> struct ConwayPolynomial<197, 10> { using ZPZ = aerobus::zpz<197>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<121>, ZPZV<137>, ZPZV<8>, ZPZV<73>, ZPZV<42>,
                         ZPZV<2»; }; // NOLINT</pre>
 03508 template<> struct ConwayPolynomial<197, 11> { using ZPZ = aerobus::zpz<197>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                         ZPZV<14>, ZPZV<195»; }; // NOLINT</pre>
03509 template<> struct ConwayPolynomial<197, 12> { using ZPZ = aerobus::zpz<197>; using type = POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<168>, ZPZV<15>, ZPZV<130>, ZPZV<141>, ZPZV<9>, ZPZV<03>, ZPZV<163>, 
 03510 template<> struct ConwayPolynomial<197, 13> { using ZPZ = aerobus::zpz<197>; using type =
                         POLÝV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<39>, ZPZV<195»; }; // NOLINT
03511 template<> struct ConwayPolynomial<197, 17> { using ZPZ = aerobus::zpz<197>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>,
                         ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<35>, ZPZV<195»; }; // NOLINT</pre>
03512 template<> struct ConwayPolynomial<197, 19> { using ZPZ = aerobus::zpz<197>, using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>,
                          \texttt{ZPZV} < \texttt{0} >, \ \texttt{Z
                         NOLINT
03513 template<> struct ConwayPolynomial<199, 1> { using ZPZ = aerobus::zpz<199>; using type =
                        POLYV<ZPZV<1>, ZPZV<196»; }; // NOLINT
 03514 template<> struct ConwayPolynomial<199, 2> { using ZPZ = aerobus::zpz<199>; using type =
                         POLYV<ZPZV<1>, ZPZV<193>, ZPZV<3»; };
                                                                                                                                                                                 // NOLINT
 03515 template<> struct ConwayPolynomial<199, 3> { using ZPZ = aerobus::zpz<199>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<196»; }; // NOLINT
03516 template<> struct ConwayPolynomial<199, 4> { using ZPZ = aerobus::zpz<199>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<162>, ZPZV<3»; }; // NOLINT
03517 template<> struct ConwayPolynomial<199, 5> { using ZPZ = aerobus::zpz<199>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<196»; }; // NOLINT
 03518 template<> struct ConwayPolynomial<199, 6> { using ZPZ = aerobus::zpz<199>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<90>, ZPZV<58>, ZPZV<79>, ZPZV<3»; }; // NOLINT
03519 template<> struct ConwayPolynomial<199, 7> { using ZPZ = aerobus::zpz<199>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<196»; }; // NOLINT
 03520 template<> struct ConwayPolynomial<199, 8> { using ZPZ = aerobus::zpz<199>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<160>, ZPZV<23>, ZPZV<159>, ZPZV<3»; }; //
03521 template<> struct ConwayPolynomial<199, 9> { using ZPZ = aerobus::zpz<199>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<177>, ZPZV<141>, ZPZV<196»;
                         }; // NOLINT
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03522 template<> struct ConwayPolynomial<199, 10> { using ZPZ = aerobus::zpz<199>; using type
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<158>, ZPZV<31>, ZPZV<54>, ZPZV<9>,
                            ZPZV<3»; }; // NOLINT</pre>
 03523 template<> struct ConwayPolynomial<199, 11> { using ZPZ = aerobus::zpz<199>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                             ZPZV<1>, ZPZV<196»; }; // NOLINT</pre>
03524 template<> struct ConwayPolynomial<199, 12> { using ZPZ = aerobus::zpz<199>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<192>, ZPZV<197>, ZPZV<198>,
ZPZV<69>, ZPZV<57>, ZPZV<151>, ZPZV<3»; }; // NOLINT
03525 template<> struct ConwayPolynomial<199, 13> { using ZPZ = aerobus::zpz<199>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0>; ZPZV<0>; ZPZV<0>; ZPZV<0>, ZPZV<0>; ZPZV<0
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<146»; }; // NOLINT</pre>
03527 template<> struct ConwayPolynomial<199, 19> { using ZPZ = aerobus::zpz<199>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<19>, ZPZV<196»; }; //
03528 template<> struct ConwayPolynomial<211, 1> { using ZPZ = aerobus::zpz<211>; using type =
                            POLYV<ZPZV<1>, ZPZV<209»; }; // NOLINT
 03529 template<> struct ConwayPolynomial<211, 2> { using ZPZ = aerobus::zpz<211>; using type =
                           POLYV<ZPZV<1>, ZPZV<207>, ZPZV<2»; }; // NOLINT
 03530 template<> struct ConwayPolynomial<211, 3> { using ZPZ = aerobus::zpz<211>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<209»; }; // NOLINT
03531 template<> struct ConwayPolynomial<211, 4> { using ZPZ = aerobus::zpz<211>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<161>, ZPZV<2»; }; // NOLINT
 03532 template<> struct ConwayPolynomial<211, 5> { using ZPZ = aerobus::zpz<211>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<209»; }; // NOLINT
03533 template<> struct ConwayPolynomial<211, 6> { using ZPZ = aerobus::zpz<211>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<81>, ZPZV<194>, ZPZV<133>, ZPZV<2»; }; // NOLINT
 03534 template<> struct ConwayPolynomial<211, 7> { using ZPZ = aerobus::zpz<211>;
                                                                                                                                                                                                                                                                                                                                                                                  using type
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<209»; };
 03535 template<> struct ConwayPolynomial<211, 8> { using ZPZ = aerobus::zpz<211>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<20>, ZPZV<87>, ZPZV<29>, ZPZV<2»; }; //
                            NOLINT
03536 template<> struct ConwayPolynomial<211, 9> { using ZPZ = aerobus::zpz<211>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<20>, ZP
                             }; // NOLINT
 03537 template<> struct ConwayPolynomial<211, 10> { using ZPZ = aerobus::zpz<211>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<30>, ZPZV<61>, ZPZV<148>, ZPZV<87>, ZPZV<125>,
                            ZPZV<2»; }; // NOLINT</pre>
03538 template<> struct ConwayPolynomial<211, 11> { using ZPZ = aerobus::zpz<211>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
03539 template<> struct ConwayPolynomial<211, 12> { using ZPZ = aerobus::zpz<211>; using type
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<50>, ZPZV<145>, ZPZV<126>, ZPZV<184>, ZPZV<84>, ZPZV<27>, ZPZV<28; }; // NOLINT
03540 template<> struct ConwayPolynomial<211, 13> { using ZPZ = aerobus::zpz<211>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                             ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<209»; }; // NOLINT</pre>
 03541 template<> struct ConwayPolynomial<211, 17> { using ZPZ = aerobus::zpz<211>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>,
 \begin{tabular}{ll} $\tt ZPZV<0>, &\tt ZPZV<0>, &\tt ZPZV<0>, &\tt ZPZV<0>, &\tt ZPZV<1>, &\tt ZPZV<209 *; }; // &\tt NOLINT \\ 03542 &\tt template<> &\tt struct &\tt ConwayPolynomial<211, 19> { using &\tt ZPZ = aerobus::zpz<211>; using &\tt type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                             ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1</pre>
//
03543 template<> struct ConwayPolynomial<223, 1> { using ZPZ = aerobus::zpz<223>; using type =
                           POLYV<ZPZV<1>, ZPZV<220»; }; // NOLINT
03544 template<> struct ConwayPolynomial<223, 2> { using ZPZ = aerobus::zpz<223>; using type = POLYV<ZPZV<1>, ZPZV<221>, ZPZV<3»; }; // NOLINT
03545 template<> struct ConwayPolynomial<223, 3> { using ZPZ = aerobus::zpz<223>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<220»; }; // NOLINT
03546 template<> struct ConwayPolynomial<223, 4> { using ZPZ = aerobus::zpz<223>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<163>, ZPZV<3>; }; // NOLINT
03547 template<> struct ConwayPolynomial<223, 5> { using ZPZ = aerobus::zpz<223>; using type =
POLYY<ZPZY<1>, ZPZY<0>, ZPZY<0>, ZPZY<0>, ZPZY<2>, ZPZY<22, ZPZY<2220; }; // NOLINT
03548 template<> struct ConwayPolynomial<223, 6> { using ZPZ = aerobus::zpz<223>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<68>, ZPZV<24>, ZPZV<196>, ZPZV<3»; }; // NOLINT
 03549 template<> struct ConwayPolynomial<223, 7> { using ZPZ = aerobus::zpz<223>; using type
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<220»; };
 03550 template<> struct ConwayPolynomial<223, 8> { using ZPZ = aerobus::zpz<223>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<139>, ZPZV<98>, ZPZV<138>, ZPZV<3»; }; //
                            NOLINT
 03551 template<> struct ConwayPolynomial<223, 9> { using ZPZ = aerobus::zpz<223>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<164>, ZPZV<64>, ZPZV<220»;
                             }; // NOLINT
03552 template<> struct ConwayPolynomial<223, 10> { using ZPZ = aerobus::zpz<223>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<118>, ZPZV<177>, ZPZV<87>, ZPZV<99>, ZPZV<62>,
                             ZPZV<3»; }; // NOLINT
03553 template<> struct ConwayPolynomial<223, 11> { using ZPZ = aerobus::zpz<223>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03554 template<> struct ConwayPolynomial<223, 12> { using ZPZ = aerobus::zpz<223>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<64>, ZPZV<94>, ZPZV<11>, ZPZV<105>, ZPZV<64>, ZPZV<151>, ZPZV<213>, ZPZV<3»; }; // NOLINT
```

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03555 template<> struct ConwayPolynomial<223, 13> { using ZPZ = aerobus::zpz<223>; using type
                          POLÝV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<23>, ZPZV<220»; }; // NOLINT
03556 template<> struct ConwayPolynomial<223, 17> { using ZPZ = aerobus::zpz<223>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                          ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2</pre>
                         NOLINT
03558 template<> struct ConwayPolynomial<227, 1> { using ZPZ = aerobus::zpz<227>; using type =
                        POLYV<ZPZV<1>, ZPZV<225»; }; // NOLINT
03559 template<> struct ConwayPolynomial<227, 2> { using ZPZ = aerobus::zpz<227>; using type =
                         POLYV<ZPZV<1>, ZPZV<220>, ZPZV<2»; }; // NOLINT
 03560 template<> struct ConwayPolynomial<227, 3> { using ZPZ = aerobus::zpz<227>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<225»; }; // NOLINT
03561 template<> struct ConwayPolynomial<227, 4> { using ZPZ = aerobus::zpz<227>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<143>, ZPZV<2»; }; // NOLINT
03562 template<> struct ConwayPolynomial<227, 5> { using ZPZ = aerobus::zpz<227>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<225»; }; // NOLINT
 03563 template<> struct ConwayPolynomial<227, 6> { using ZPZ = aerobus::zpz<227>; using type =
                        POLYV<2PZV<1>, 2PZV<0>, 2PZV<1>, 2PZV<174>, ZPZV<24>, ZPZV<135>, ZPZV<2*; }; // NOLINT
03564 template<> struct ConwayPolynomial<227, 7> { using ZPZ = aerobus::zpz<227>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<25»; }; // NOLINT
 03565 template<> struct ConwayPolynomial<227, 8> { using ZPZ = aerobus::zpz<227>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<151>, ZPZV<176>, ZPZV<106>, ZPZV<2»; }; //
03566 template<> struct ConwayPolynomial<227, 9> { using ZPZ = aerobus::zpz<227>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<24>, ZPZV<24>, ZPZV<183>, ZPZV<225»;
                          }; // NOLINT
03567 template<> struct ConwayPolynomial<227, 10> { using ZPZ = aerobus::zpz<227>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<199>, ZPZV<12>, ZPZV<193>, ZPZV<7>,
                          ZPZV<2»; }; // NOLINT</pre>
 03568 template<> struct ConwayPolynomial<227, 11> { using ZPZ = aerobus::zpz<227>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<225»; }; // NOLINT
03569 template<> struct ConwayPolynomial<227, 12> { using ZPZ = aerobus::zpz<227>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<123>, ZPZV<99>, ZPZV<160>, ZPZV<96>,
                          ZPZV<127>, ZPZV<142>, ZPZV<94>, ZPZV<2»; }; // NOLINT</pre>
 03570 template<> struct ConwayPolynomial<227, 13> { using ZPZ = aerobus::zpz<227>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>; ); // NOLINT 03572 template<> struct ConwayPolynomial<227, 19> { using ZPZ = aerobus::zpz<227>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                         ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>); //
                         NOLINT
03573 template<> struct ConwayPolynomial<229, 1> { using ZPZ = aerobus::zpz<229>; using type =
                        POLYV<ZPZV<1>, ZPZV<223»; }; // NOLINT
 03574 template<> struct ConwayPolynomial<229, 2> { using ZPZ = aerobus::zpz<229>; using type =
                        POLYV<ZPZV<1>, ZPZV<228>, ZPZV<6»; }; // NOLINT
 03575 template<> struct ConwayPolynomial<229, 3> { using ZPZ = aerobus::zpz<229>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<223»; }; // NOLINT
03576 template<> struct ConwayPolynomial<229, 4> { using ZPZ = aerobus::zpz<229>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<162>, ZPZV<6%; }; // NOLINT
03577 template<> struct ConwayPolynomial<229, 5> { using ZPZ = aerobus::zpz<229>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<223»; }; // NOLINT
 03578 template<> struct ConwayPolynomial<229, 6> { using ZPZ = aerobus::zpz<229>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<24>, ZPZV<160>, ZPZV<186>, ZPZV<66; }; // NOLINT 03579 template<> struct ConwayPolynomial<229, 7> { using ZPZ = aerobus::zpz<229>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<23»; };
 03580 template<> struct ConwayPolynomial<229, 8> { using ZPZ = aerobus::zpz<229>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<193>, ZPZV<62>, ZPZV<205>, ZPZV<6%; }; //
                        NOLINT
 03581 template<> struct ConwayPolynomial<229, 9> { using ZPZ = aerobus::zpz<229>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<117>, ZPZV<50>, ZPZV<223»;
 03582 template<> struct ConwayPolynomial<229, 10> { using ZPZ = aerobus::zpz<229>; using type
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<185>, ZPZV<135>, ZPZV<158>, ZPZV<167>, ZPZV<98>, ZPZV<6»; }; // NOLINT
 03583 template<> struct ConwayPolynomial<229, 11> { using ZPZ = aerobus::zpz<229>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                          ZPZV<2>, ZPZV<223»; }; // NOLINT</pre>
 03584 template<> struct ConwayPolynomial<229, 12> { using ZPZ = aerobus::zpz<229>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<140>, ZPZV<25>, ZPZV<6>, ZPZV<172>,
                          ZPZV<9>, ZPZV<145>, ZPZV<6»; }; // NOLINT</pre>
03585 template<> struct ConwayPolynomial<229, 13> { using ZPZ = aerobus::zpz<229>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03586 template<> struct ConwayPolynomial<229, 17>
                                                                                                                                                                                                         { using ZPZ = aerobus::zpz<229>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                          ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<223»; }; // NOLINT</pre>
03587 template<> struct ConwayPolynomial<229, 19> { using ZPZ = aerobus::zpz<229>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<1
```

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03588 template<> struct ConwayPolynomial<233, 1> { using ZPZ = aerobus::zpz<233>; using type =
                         POLYV<ZPZV<1>, ZPZV<230»; }; // NOLINT
 03589 template<> struct ConwayPolynomial<233, 2> { using ZPZ = aerobus::zpz<233>; using type =
POLYV<ZPZV<1>, ZPZV<232>, ZPZV<3»; }; // NOLINT
03590 template<> struct ConwayPolynomial<233, 3> { using ZPZ = aerobus::zpz<233>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<230»; }; // NOLINT
 03591 template<> struct ConwayPolynomial<233, 4> { using ZPZ = aerobus::zpz<233>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<158>, ZPZV<3»; }; // NOLINT
03592 template<> struct ConwayPolynomial<233, 5> { using ZPZ = aerobus::zpz<233>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<17>, ZPZV<230»; }; // NOLINT

03593 template<> struct ConwayPolynomial<233, 6> { using ZPZ = aerobus::zpz<233>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<12>, ZPZV<215>, ZPZV<32>, ZPZV<32>, ZPZV<32>, ZPZV<225>, ZPZV<32>, ZPZV<32>, ZPZV<32>; // NOLINT 03594 template<> struct ConwayPolynomial<233, 7> { using ZPZ = aerobus::zpz<233>; using type :
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<230»; };
 03595 template<> struct ConwayPolynomial<233, 8> { using ZPZ = aerobus::zpz<233>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<202>, ZPZV<135>, ZPZV<181>, ZPZV<3»; }; //
                         NOLINT
03596 template<> struct ConwayPolynomial<233, 9> { using ZPZ = aerobus::zpz<233>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<56>, ZPZV<146>, ZPZV<230»;
                           }; // NOLINT
 03597 template<> struct ConwayPolynomial<233, 10> { using ZPZ = aerobus::zpz<233>; using type | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<28>, ZPZV<71>, ZPZV<102>, ZPZV<3>, ZPZV<48>, ZPZV<3»; }; // NOLINT
 03598 template<> struct ConwayPolynomial<233, 11> { using ZPZ = aerobus::zpz<233>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03599 template<> struct ConwayPolynomial<233, 12> { using ZPZ = aerobus::zpz<233>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<96>, ZPZV<21>, ZPZV<114>, ZPZV<31>, ZPZV<19>,
                          ZPZV<216>, ZPZV<20>, ZPZV<3»; }; // NOLINT</pre>
03600 template<> struct ConwayPolynomial<233, 13> { using ZPZ = aerobus::zpz<233>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , 
                           ZPZV<0>, ZPZV<0>, ZPZV<14>, ZPZV<230»; }; // NOLINT</pre>
 03601 template<> struct ConwayPolynomial<233, 17> { using ZPZ = aerobus::zpz<233>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<4>, ZPZV<230»; }; // NOLINT 03602 template<> struct ConwayPolynomial<233, 19> { using ZPZ = aerobus::zpz<233>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                           ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<25>, ZPZV<25>, ZPZV<230»; }; //</pre>
03603 template<> struct ConwayPolynomial<239, 1> { using ZPZ = aerobus::zpz<239>; using type =
                         POLYV<ZPZV<1>, ZPZV<232»; }; // NOLINT
 03604 template<> struct ConwayPolynomial<239, 2> { using ZPZ = aerobus::zpz<239>; using type =
                          POLYV<ZPZV<1>, ZPZV<237>, ZPZV<7»; }; // NOLINT
 03605 template<> struct ConwayPolynomial<239, 3> { using ZPZ = aerobus::zpz<239>; using type =
                                                                                                                                                                                                                                       // NOLINT
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<232»; };
 03606 template<> struct ConwayPolynomial<239, 4> { using ZPZ = aerobus::zpz<239>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<132>, ZPZV<7»; }; // NOLINT
03607 template<> struct ConwayPolynomial<239, 5> { using ZPZ = aerobus::zpz<239>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<232»; }; // NOLINT
03608 template<> struct ConwayPolynomial<239, 6> { using ZPZ = aerobus::zpz<239>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<237>, ZPZV<60>, ZPZV<200>, ZPZV<7»; }; // NOLINT
 03609 template<> struct ConwayPolynomial<239, 7> { using ZPZ = aerobus::zpz<239>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<17>, ZPZV<232»; };
 03610 template<> struct ConwayPolynomial<239, 8> { using ZPZ = aerobus::zpz<239>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<201>, ZPZV<202>, ZPZV<54>, ZPZV<54>, ZPZV<7»; }; //
 03611 template<> struct ConwayPolynomial<239, 9> { using ZPZ = aerobus::zpz<239>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<2>, ZPZV<288>, ZPZV<232»; };
                            // NOLINT
03612 template<> struct ConwayPolynomial<239, 10> { using ZPZ = aerobus::zpz<239>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<57>, ZPZV<68>, ZPZV<226>, ZPZV<127>, ZPZV<108>, ZPZV<7»; }; // NOLINT
03613 template<> struct ConwayPolynomial<239, 11> { using ZPZ = aerobus::zpz<239>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
                          ZPZV<8>, ZPZV<232»; }; // NOLINT</pre>
 03614 template<> struct ConwayPolynomial<239, 12> { using ZPZ = aerobus::zpz<239>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<235>, ZPZV<14>, ZPZV<113>, ZPZV<182>, ZPZV<101>, ZPZV<216>, ZPZV<7»; }; // NOLINT
 03615 template<> struct ConwayPolynomial<239, 13> { using ZPZ = aerobus::zpz<239>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03616 template<> struct ConwayPolynomial<239, 17> { using ZPZ = aerobus::zpz<239>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<232*; }; // NOLINT 03617 template<> struct ConwayPolynomial<239, 19> { using ZPZ = aerobus::zpz<239>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                           ZPZV<0>, ZPZV<24>, ZPZV<24>, ZPZV<232»; }; //</pre>
                          NOLTNT
03618 template<> struct ConwayPolynomial<241, 1> { using ZPZ = aerobus::zpz<241>; using type =
                         POLYV<ZPZV<1>, ZPZV<234»; }; // NOLINT
 03619 template<> struct ConwayPolynomial<241, 2> { using ZPZ = aerobus::zpz<241>; using type =
                         POLYV<ZPZV<1>, ZPZV<238>, ZPZV<7»; }; // NOLINT
 03620 template<> struct ConwayPolynomial<241, 3> { using ZPZ = aerobus::zpz<241>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<234»; }; // NOLINT
 03621 template<> struct ConwayPolynomial<241, 4> { using ZPZ = aerobus::zpz<241>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<152>, ZPZV<7»; }; // NOLINT
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03622 template<> struct ConwayPolynomial<241, 5> { using ZPZ = aerobus::zpz<241>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<234»; }; // NOLINT
03623 template<> struct ConwayPolynomial<241, 6> { using ZPZ = aerobus::zpz<241>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<83>, ZPZV<6>, ZPZV<5>, ZPZV<7»; }; // NOLINT
03624 template<> struct ConwayPolynomial<241, 7> { using ZPZ = aerobus::zpz<241>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<234»; }; // N
                                                                                                                                                                                                                                                                                                                                // NOLTNT
 03625 template<> struct ConwayPolynomial<241, 8> { using ZPZ = aerobus::zpz<241>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<173>, ZPZV<212>, ZPZV<153>, ZPZV<7»; }; //
03626 template<> struct ConwayPolynomial<241, 9> { using ZPZ = aerobus::zpz<241>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<236>, ZPZV<125>, ZPZV<234»;
                      }; // NOLINT
03627 template<> struct ConwayPolynomial<241, 10> { using ZPZ = aerobus::zpz<241>; using type
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<29>, ZPZV<27>, ZPZV<145>, ZPZV<208>, ZPZV<55>,
                      ZPZV<7»; }; // NOLINT</pre>
03628 template<> struct ConwayPolynomial<241, 11> { using ZPZ = aerobus::zpz<241>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03629 template<> struct ConwayPolynomial<241, 12> { using ZPZ = aerobus::zpz<241>; using type
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<42>, ZPZV<10>, ZPZV<109>, ZPZV<168>, ZPZV<22>,
                      ZPZV<197>, ZPZV<17>, ZPZV<7»; }; // NOLINT</pre>
03630 template<> struct ConwayPolynomial<241, 13> { using ZPZ = aerobus::zpz<241>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<14>, ZPZV<234»; }; // NOLINT</pre>
03632 template<> struct ConwayPolynomial<241, 19> { using ZPZ = aerobus::zpz<241>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                      NOLINT
03633 template<> struct ConwayPolynomial<251, 1> { using ZPZ = aerobus::zpz<251>; using type =
                      POLYV<ZPZV<1>, ZPZV<245»; }; // NOLINT
 03634 template<> struct ConwayPolynomial<251, 2> { using ZPZ = aerobus::zpz<251>; using type =
POLYV<ZPZV<1>, ZPZV<242, ZPZV<6»; }; // NOLINT
03635 template<> struct ConwayPolynomial<251, 3> { using ZPZ = aerobus::zpz<251>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<245»; }; // NOLINT
 03636 template<> struct ConwayPolynomial<251, 4> { using ZPZ = aerobus::zpz<251>; using type =
POLYV<ZPZV<1>, ZPZV<3>, ZPZV<20>, ZPZV<20s, ZPZV<60s; }; // NOLINT
03637 template<> struct ConwayPolynomial<251, 5> { using ZPZ = aerobus::zpz<251>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<245»; }; // NOLINT
03638 template<> struct ConwayPolynomial<251, 6> { using ZPZ = aerobus::zpz<251>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<247>, ZPZV<151>, ZPZV<179>, ZPZV<6»; }; // NOLINT 03639 template<> struct ConwayPolynomial<251, 7> { using ZPZ = aerobus::zpz<251>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<245»; }; // NOLINT
 03640 template<> struct ConwayPolynomial<251, 8> { using ZPZ = aerobus::zpz<251>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<142>, ZPZV<215>, ZPZV<173>, ZPZV<6»; }; //
                     NOLINT
03641 template<> struct ConwayPolynomial<251, 9> { using ZPZ = aerobus::zpz<251>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<45, ZPZV<187>, ZPZV<106>, ZPZV<24s;
 03642 template<> struct ConwayPolynomial<251, 10> { using ZPZ = aerobus::zpz<251>; using type
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<138>, ZPZV<110>, ZPZV<45>, ZPZV<34>,
                      ZPZV<149>, ZPZV<6»; }; // NOLINT</pre>
03643 template<> struct ConwayPolynomial<251, 11> { using ZPZ = aerobus::zpz<251>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<26>, ZPZV<245»; }; // NOLINT
 03644 template<> struct ConwayPolynomial<251, 12> { using ZPZ = aerobus::zpz<251>; using type =
                      POLÝV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<192>, ZPZV<53>, ZPZV<20>, ZPZV<20>, ZPZV<15>,
ZPZV<201>, ZPZV<232>, ZPZV<6»; }; // NOLINT
03645 template<> struct ConwayPolynomial<251, 13> { using ZPZ = aerobus::zpz<251>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                      ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<245»; }; // NOLINT</pre>
 03646 template<> struct ConwayPolynomial<251, 17> { using ZPZ = aerobus::zpz<251>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                       \texttt{ZPZV} < 0>, \ \texttt{ZPZV} < 9>, \ \texttt{ZPZV} < 245 \\ \texttt{*}; \ \ // \ \ \texttt{NOLINT} 
03647 template<> struct ConwayPolynomial<251, 19> { using ZPZ = aerobus::zpz<251>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2</pre>
 03648 template<> struct ConwayPolynomial<257, 1> { using ZPZ = aerobus::zpz<257>; using type =
                     POLYV<ZPZV<1>, ZPZV<254»; }; // NOLINT
 03649 template<> struct ConwayPolynomial<257, 2> { using ZPZ = aerobus::zpz<257>; using type =
POLYY<ZPZV<1>, ZPZV<251>, ZPZV<3»; }; // NOLINT
03650 template<> struct ConwayPolynomial<257, 3> { using ZPZ = aerobus::zpz<257>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<254»; }; // NOLINT
 03651 template<> struct ConwayPolynomial<257, 4> { using ZPZ = aerobus::zpz<257>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<16>, ZPZV<187>, ZPZV<3»; }; // NOLINT
03652 template<> struct ConwayPolynomial<257, 5> { using ZPZ = aerobus::zpz<257>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<254»; }; // NOLINT

03653 template<> struct ConwayPolynomial<257, 6> { using ZPZ = aerobus::zpz<257>; using type =
                      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<62>, ZPZV<18>, ZPZV<138>, ZPZV<3»; }; // NOLINT
 03654 template<> struct ConwayPolynomial<257, 7> { using ZPZ = aerobus::zpz<257>; using type
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<31>, ZPZV<254»; };
 03655 template<> struct ConwayPolynomial<257, 8> { using ZPZ = aerobus::zpz<257>; using type =
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<140>, ZPZV<140>, ZPZV<162>, ZPZV<3»; }; //
                      NOLTNT
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03656 template<> struct ConwayPolynomial<257, 9> { using ZPZ = aerobus::zpz<257>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<201>, ZPZV<201>, ZPZV<50>, ZPZV<254»;
                           }; // NOLINT
 03657 template<> struct ConwayPolynomial<257, 10> { using ZPZ = aerobus::zpz<257>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<20>, ZPZV<
                           ZPZV<3»; }; // NOLINT</pre>
03658 template<> struct ConwayPolynomial<257, 11> { using ZPZ = aerobus::zpz<257>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
                            ZPZV<40>, ZPZV<254»; }; // NOLINT</pre>
03659 template<> struct ConwayPolynomial<257, 12> { using ZPZ = aerobus::zpz<257>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<25>, ZPZV<225>, ZPZV<215>, ZPZV<215>, ZPZV<173>, ZPZV<249>, ZPZV<249>, ZPZV<20>, ZPZV<3»; }; // NOLINT

03660 template<> struct ConwayPolynomial<257, 13> { using ZPZ = aerobus::zpz<257>; using type =
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                            ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<254»; }; // NOLINT</pre>
03661 template<> struct ConwayPolynomial<257, 17> { using ZPZ = aerobus::zpz<257>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0 , ZPZ
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<10>, ZPZV<254»; }; //</pre>
                           NOLINT
03663 template<> struct ConwayPolynomial<263, 1> { using ZPZ = aerobus::zpz<263>; using type =
                           POLYV<ZPZV<1>, ZPZV<258»; }; // NOLINT
03664 template<> struct ConwayPolynomial<263, 2> { using ZPZ = aerobus::zpz<263>; using type =
                           POLYV<ZPZV<1>, ZPZV<261>, ZPZV<5»; }; // NOLINT
 03665 template<> struct ConwayPolynomial<263, 3> { using ZPZ = aerobus::zpz<263>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<258»; }; // NOLINT
03666 template<> struct ConwayPolynomial<263, 4> { using ZPZ = aerobus::zpz<263>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<171>, ZPZV<5»; }; // NOLINT
03667 template<> struct ConwayPolynomial<263, 5> { using ZPZ = aerobus::zpz<263>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<258»; }; // NOLINT
 03668 template<> struct ConwayPolynomial<263, 6> { using ZPZ = aerobus::zpz<263>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<222>, ZPZV<250>, ZPZV<25>, ZPZV<5»; }; // NOLINT
 03669 template<> struct ConwayPolynomial<263, 7> { using ZPZ = aerobus::zpz<263>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<258»; };
03670 template<> struct ConwayPolynomial<263, 8> { using ZPZ = aerobus::zpz<263>; using type
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<227>, ZPZV<170>, ZPZV<7>, ZPZV<5»; }; //
 03671 template<> struct ConwayPolynomial<263, 9> { using ZPZ = aerobus::zpz<263>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<261>, ZPZV<29>, ZPZV<258»;
                           }; // NOLINT
03672 template<> struct ConwayPolynomial<263, 10> { using ZPZ = aerobus::zpz<263>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<245>, ZPZV<231>, ZPZV<198>, ZPZV<145>, ZPZV<119>, ZPZV<198>, ZPZV<145>, ZPZV<119>, ZPZV<198>, ZPZV<145>, ZPZV<119>, ZPZV<11
03673 template<> struct ConwayPolynomial<263, 11> { using ZPZ = aerobus::zpz<263>; using type
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03674 template<> struct ConwayPolynomial<263, 12> { using ZPZ = aerobus::zpz<263>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<174>, ZPZV<162>, ZPZV<252>,
                           ZPZV<47>, ZPZV<45>, ZPZV<180>, ZPZV<5»; }; // NOLINT</pre>
 03675 template<> struct ConwayPolynomial<269, 1> { using ZPZ = aerobus::zpz<269>; using type =
                           POLYV<ZPZV<1>, ZPZV<267»; }; // NOLINT
 03676 template<> struct ConwayPolynomial<269, 2> { using ZPZ = aerobus::zpz<269>; using type =
POLYV<ZPZV<1>, ZPZV<268>, ZPZV<2»; }; // NOLINT
03677 template<> struct ConwayPolynomial<269, 3> { using ZPZ = aerobus::zpz<269>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<9>, ZPZV<267»; }; // NOLINT
 03678 template<> struct ConwayPolynomial<269, 4> { using ZPZ = aerobus::zpz<269>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<26>, ZPZV<26>, ZPZV<28; }; // NOLINT
03679 template<> struct ConwayPolynomial<269, 5> { using ZPZ = aerobus::zpz<269>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<267»; }; // NOLINT

03680 template<> struct ConwayPolynomial<269, 6> { using ZPZ = aerobus::zpz<269>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<120>, ZPZV<101>, ZPZV<206>, ZPZV<2»; }; // NOLINT
 03681 template<> struct ConwayPolynomial<269, 7> { using ZPZ = aerobus::zpz<269>; using type
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>; };
 03682 template<> struct ConwayPolynomial<269, 8> { using ZPZ = aerobus::zpz<269>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<220>, ZPZV<131>, ZPZV<232>, ZPZV
                           NOLINT
03683 template<> struct ConwayPolynomial<269, 9> { using ZPZ = aerobus::zpz<269>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2), ZPZV<214>, ZPZV<267>, ZPZV<267>;
                            }; // NOLINT
 03684 template<> struct ConwayPolynomial<269, 10> { using ZPZ = aerobus::zpz<269>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<264>, ZPZV<243>, ZPZV<186>, ZPZV<61>,
                           ZPZV<10>, ZPZV<2>; }; // NOLINT
03685 template<> struct ConwayPolynomial<269, 11> { using ZPZ = aerobus::zpz<269>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
 03686 template<> struct ConwayPolynomial<269, 12> { using ZPZ = aerobus::zpz<269>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<126>, ZPZV<165>, ZPZV<63>, ZPZV<215>, ZPZV<132>, ZPZV<180>, ZPZV<150>, ZPZV<2»; }; // NOLINT
 03687 template<> struct ConwayPolynomial<271, 1> { using ZPZ = aerobus::zpz<271>; using type =
                           POLYV<ZPZV<1>, ZPZV<265»; }; // NOLINT
 03688 template<> struct ConwayPolynomial<271, 2> { using ZPZ = aerobus::zpz<271>; using type =
                           POLYV<ZPZV<1>, ZPZV<269>, ZPZV<6»; }; // NOLINT
03689 template<> struct ConwayPolynomial<271, 3> { using ZPZ = aerobus::zpz<271>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<265»; }; // NOLINT
03690 template<> struct ConwayPolynomial<271, 4> { using ZPZ = aerobus::zpz<271>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<205>, ZPZV<6>; }; // NOLINT 03691 template<> struct ConwayPolynomial<271, 5> { using ZPZ = aerobus::zpz<271>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<265»; }; // NOLINT
03692 template<> struct ConwayPolynomial<271, 6> { using ZPZ = aerobus::zpz<271>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<207>, ZPZV<207>, ZPZV<81>, ZPZV<6»; }; // NOLINT 03693 template<> struct ConwayPolynomial<271, 7> { using ZPZ = aerobus::zpz<271>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<25»; }; // NOLINT
03694 template<> struct ConwayPolynomial<271, 8> { using ZPZ = aerobus::zpz<271>; using type :
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<199>, ZPZV<114>, ZPZV<69>, ZPZV<69; }; //
              NOLINT
03695 template<> struct ConwayPolynomial<271, 9> { using ZPZ = aerobus::zpz<271>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<26>, ZPZV<266>, ZPZV<186>, ZPZV<26*;
              }: // NOLINT
03696 template<> struct ConwayPolynomial<271, 10> { using ZPZ = aerobus::zpz<271>; using type
              POLÝV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<133>, ZPZV<10>, ZPZV<256>, ZPZV<74>,
              ZPZV<126>, ZPZV<6»; }; // NOLINT</pre>
03697 template<> struct ConwayPolynomial<271, 11> { using ZPZ = aerobus::zpz<271>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
03698 template<> struct ConwayPolynomial<271, 12> { using ZPZ = aerobus::zpz<271>; using type
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<162>, ZPZV<210>, ZPZV<116>, ZPZV<205>, ZPZV<237>, ZPZV<256>, ZPZV<130>, ZPZV<6»; }; // NOLINT
03699 template<> struct ConwayPolynomial<277, 1> { using ZPZ = aerobus::zpz<277>; using type =
             POLYV<ZPZV<1>, ZPZV<272»; }; // NOLINT
03700 template<> struct ConwayPolynomial<277, 2> { using ZPZ = aerobus::zpz<277>; using type =
             POLYV<ZPZV<1>, ZPZV<274>, ZPZV<5»; }; // NOLINT
03701 template<> struct ConwayPolynomial<277, 3> { using ZPZ = aerobus::zpz<277>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<272»; }; // NOLINT
03702 template<> struct ConwayPolynomial<277, 4> { using ZPZ = aerobus::zpz<277>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<222>, ZPZV<5»; }; // NOLINT
03703 template<> struct ConwayPolynomial<277, 5> { using ZPZ = aerobus::zpz<277>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<272»; }; // NOLINT
03704 template<> struct ConwayPolynomial<277, 6> { using ZPZ = aerobus::zpz<277>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<33>, ZPZV<9>, ZPZV<118>, ZPZV<5»; }; // NOLINT
03705 template<> struct ConwayPolynomial<277, 7> { using ZPZ = aerobus::zpz<277>; using type
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<272»; };
03706 template<> struct ConwayPolynomial<277, 8> { using ZPZ = aerobus::zpz<277>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<187>, ZPZV<159>, ZPZV<176>, ZPZV<5»; }; //
03707 template<> struct ConwayPolynomial<277, 9> { using ZPZ = aerobus::zpz<277>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<177>, ZPZV<110>, ZPZV<272»;
              }; // NOLINT
03708 template<> struct ConwayPolynomial<277, 10> { using ZPZ = aerobus::zpz<2777; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<20>, ZPZV<206>, ZPZV<253>, ZPZV<237>, ZPZV<241>, ZPZV<260>, ZPZV<5»; }; // NOLINT
03709 template<> struct ConwayPolynomial<277, 11> { using ZPZ = aerobus::zpz<277>; using type
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03710 template<> struct ConwayPolynomial<277, 12> { using ZPZ = aerobus::zpz<277>; using type =
             POLYYCZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<183>, ZPZV<218>, ZPZV<240>, ZPZV<40>, ZPZV<40>, ZPZV<180>, ZPZV<115>, ZPZV<202>, ZPZV<5»; }; // NOLINT
03711 template<> struct ConwayPolynomial<281, 1> { using ZPZ = aerobus::zpz<281>; using type =
              POLYV<ZPZV<1>, ZPZV<278»; }; // NOLINT
03712 template<> struct ConwayPolynomial<281, 2> { using ZPZ = aerobus::zpz<281>; using type =
POLYV<ZPZV<1>, ZPZV<280>, ZPZV<3»; }; // NOLINT
03713 template<> struct ConwayPolynomial<281, 3> { using ZPZ = aerobus::zpz<281>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<278»; }; // NOLINT
03714 template<> struct ConwayPolynomial<281, 4> { using ZPZ = aerobus::zpz<281>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<176>, ZPZV<3»; }; // NOLINT
03715 template<> struct ConwayPolynomial<281, 5> { using ZPZ = aerobus::zpz<281>; using type =
POLYV<2PZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<278»; }; // NOLINT

03716 template<> struct ConwayPolynomial<281, 6> { using ZPZ = aerobus::zpz<281>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<151>, ZPZV<13>, ZPZV<27>, ZPZV<3»; }; // NOLINT
03717 template<> struct ConwayPolynomial<281, 7> { using ZPZ = aerobus::zpz<281>; using type
                                                                                                                                                                                                              // NOLINT
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<19>, ZPZV<278»; };
03718 template<> struct ConwayPolynomial<281, 8> { using ZPZ = aerobus::zpz<281>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<195>, ZPZV<279>, ZPZV<140>, ZPZV<3»; }; //
              NOLINT
03719 template<> struct ConwayPolynomial<281, 9> { using ZPZ = aerobus::zpz<281>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<148>, ZPZV<70>, ZPZV<278»;
              }; // NOLINT
03720 template<> struct ConwayPolynomial<281, 10> { using ZPZ = aerobus::zpz<281>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<258>, ZPZV<145>, ZPZV<13>, ZPZV<138>, ZPZV<191>, ZPZV<3»; }; // NOLINT
03721 template<> struct ConwayPolynomial<281, 11> { using ZPZ = aerobus::zpz<281>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
03722 template<> struct ConwayPolynomial<281, 12> { using ZPZ = aerobus::zpz<281>, using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<202>, ZPZV<68>, ZPZV<103>, ZPZV<116>,
ZPZV<58>, ZPZV<28>, ZPZV<191>, ZPZV<3»; }; // NOLINT

03723 template<> struct ConwayPolynomial<283, 1> { using ZPZ = aerobus::zpz<283>; using type =
              POLYV<ZPZV<1>, ZPZV<280»; }; // NOLINT
03724 template<> struct ConwayPolynomial<283, 2> { using ZPZ = aerobus::zpz<283>; using type =
             POLYV<ZPZV<1>, ZPZV<282>, ZPZV<3»; }; // NOLINT
03725 template<> struct ConwayPolynomial<283, 3> { using ZPZ = aerobus::zpz<283>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<280»; }; // NOLINT
03726 template<> struct ConwayPolynomial<283, 4> { using ZPZ = aerobus::zpz<283>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<238>, ZPZV<3»; }; // NOLINT
03727 template<> struct ConwayPolynomial<283, 5> { using ZPZ = aerobus::zpz<283>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<38); // NOLINT
03728 template<> struct ConwayPolynomial<283, 6> { using ZPZ = aerobus::zpz<283>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<199>, ZPZV<68>, ZPZV<73>, ZPZV<3»; }; // NOLINT
03729 template<> struct ConwayPolynomial<283, 7> { using ZPZ = aerobus::zpz<283>; using type
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<280»; };
03730 template<> struct ConwayPolynomial<283, 8> { using ZPZ = aerobus::zpz<283>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<179>, ZPZV<32>, ZPZV<232>, ZPZV<3»; }; //
           NOLINT
03731 template<> struct ConwayPolynomial<283, 9> { using ZPZ = aerobus::zpz<283>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<136>, ZPZV<65>, ZPZV<280»;
           }: // NOLINT
03732 template<> struct ConwayPolynomial<283, 10> { using ZPZ = aerobus::zpz<283>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<271>, ZPZV<185>, ZPZV<68>, ZPZV<100>,
           ZPZV<219>, ZPZV<3»; }; // NOLINT</pre>
03733 template<> struct ConwayPolynomial<283, 11> { using ZPZ = aerobus::zpz<283>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03734 template<> struct ConwayPolynomial<283, 12> { using ZPZ = aerobus::zpz<283>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<20>, ZPZV<20>, ZPZV<8>, ZPZV<96>, ZPZV<229>, ZPZV<49>, ZPZV<14>, ZPZV<56>, ZPZV<3»; }; // NOLINT
03735 template<> struct ConwayPolynomial<293, 1> { using ZPZ = aerobus::zpz<293>; using type =
          POLYV<ZPZV<1>, ZPZV<291»; }; // NOLINT
03736 template<> struct ConwayPolynomial<293, 2> { using ZPZ = aerobus::zpz<293>; using type =
          POLYV<ZPZV<1>, ZPZV<292>, ZPZV<2»; }; // NOLINT
03737 template<> struct ConwayPolynomial<293, 3> { using ZPZ = aerobus::zpz<293>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<291»; }; // NOLINT
03738 template<> struct ConwayPolynomial<293, 4> { using ZPZ = aerobus::zpz<293>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<166>, ZPZV<2»; }; // NOLINT

03739 template<> struct ConwayPolynomial<293, 5> { using ZPZ = aerobus::zpz<293>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<291»; }; // NOLINT
03740 template<> struct ConwayPolynomial<293, 6> { using ZPZ = aerobus::zpz<293>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<128>, ZPZV<210>, ZPZV<260>, ZPZV<2»; }; // NOLINT
03741 template<> struct ConwayPolynomial<293, 7> { using ZPZ = aerobus::zpz<293>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<291»; };
03742 template<> struct ConwayPolynomial<293, 8> { using ZPZ = aerobus::zpz<293>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<29>, ZPZV<175>, ZPZV<195>, ZPZV<239>, ZPZV<239>, ZPZV<29; }; //
03743 template<> struct ConwayPolynomial<293, 9> { using ZPZ = aerobus::zpz<293>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<208>, ZPZV<190>, ZPZV<291»;
           }; // NOLINT
03744 template<> struct ConwayPolynomial<293, 10> { using ZPZ = aerobus::zpz<293>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<28>, ZPZV<46>, ZPZV<46>, ZPZV<184>, ZPZV<24>,
           ZPZV<2»; }; // NOLINT</pre>
03745 template<> struct ConwayPolynomial<293, 11> { using ZPZ = aerobus::zpz<293>; using type
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03746 template<> struct ConwayPolynomial<293, 12> { using ZPZ = aerobus::zpz<293>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<159>, ZPZV<210>, ZPZV<212>,
           ZPZV<167>, ZPZV<144>, ZPZV<157>, ZPZV<2»; }; // NOLINT</pre>
03747 template<> struct ConwayPolynomial<307, 1> { using ZPZ = aerobus::zpz<307>; using type =
          POLYV<ZPZV<1>, ZPZV<302»; }; // NOLINT
03748 template<> struct ConwayPolynomial<307, 2> { using ZPZ = aerobus::zpz<307>; using type =
POLYV<ZPZV<1>, ZPZV<306, ZPZV<5»; }; // NOLINT
03749 template<> struct ConwayPolynomial<307, 3> { using ZPZ = aerobus::zpz<307>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<302»; }; // NOLINT
03750 template<> struct ConwayPolynomial<307, 4> { using ZPZ = aerobus::zpz<307>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<239>, ZPZV<5»; }; // NOLINT
03751 template<> struct ConwayPolynomial<307, 5> { using ZPZ = aerobus::zpz<307>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<302»; }; // NOLINT
03752 template<> struct ConwayPolynomial<307, 6> { using ZPZ = aerobus::zpz<307>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<213>, ZPZV<172>, ZPZV<61>, ZPZV<5»; }; // NOLINT
03753 template<> struct ConwayPolynomial<307, 7> { using ZPZ = aerobus::zpz<307>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<302»; };
03754 template<> struct ConwayPolynomial<307, 8> { using ZPZ = aerobus::zpz<307>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<283>, ZPZV<232>, ZPZV<131>, ZPZV<5»; }; //
           NOLINT
03755 template<> struct ConwayPolynomial<307, 9> { using ZPZ = aerobus::zpz<307>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<165>, ZPZV<70>, ZPZV<302»;
           }; // NOLINT
03756 template<> struct ConwayPolynomial<311, 1> { using ZPZ = aerobus::zpz<311>; using type =
           POLYV<ZPZV<1>, ZPZV<294»; }; // NOLINT
03757 template<> struct ConwayPolynomial<311, 2> { using ZPZ = aerobus::zpz<311>; using type =
POLYV<ZPZV<1>, ZPZV<310>, ZPZV<17»; }; // NOLINT
03758 template<> struct ConwayPolynomial<311, 3> { using ZPZ = aerobus::zpz<311>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<294»; }; // NOLINT
03759 template<> struct ConwayPolynomial<311, 4> { using ZPZ = aerobus::zpz<311>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<163>, ZPZV×17»; }; // NOLINT
03760 template<> struct ConwayPolynomial<311, 5> { using ZPZ = aerobus::zpz<311>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<294»; }; // NOLINT
03761 template<> struct ConwayPolynomial<311, 6> { using ZPZ = aerobus::zpz<311>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<27>, ZPZV<167>, ZPZV<152>, ZPZV<17»; }; // NOLINT
03762 template<> struct ConwayPolynomial<311, 7> { using ZPZ = aerobus::zpz<311>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<294»; }; // NOLINT
03763 template<> struct ConwayPolynomial<311, 8> { using ZPZ = aerobus::zpz<311>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<19>, ZPZV<162>, ZPZV<118>, ZPZV<2>, ZPZV<17»; }; //
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NOLINT
03764 template<> struct ConwayPolynomial<311, 9> { using ZPZ = aerobus::zpz<311>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<294»;
       }; // NOLINT
03765 template<> struct ConwayPolynomial<313, 1> { using ZPZ = aerobus::zpz<313>; using type =
       POLYV<ZPZV<1>, ZPZV<303»; }; // NOLINT
03766 template<> struct ConwayPolynomial<313, 2> { using ZPZ = aerobus::zpz<313>; using type =
       POLYV<ZPZV<1>, ZPZV<310>, ZPZV<10»; }; // NOLINT
03767 template<> struct ConwayPolynomial<313, 3> { using ZPZ = aerobus::zpz<313>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<303»; }; // NOLINT
03768 template<> struct ConwayPolynomial<313, 4> { using ZPZ = aerobus::zpz<313>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<239>, ZPZV<10»; }; // NOLINT
03769 template<> struct ConwayPolynomial<313, 5> { using ZPZ = aerobus::zpz<313>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<303»; }; // NOLINT
03770 template<> struct ConwayPolynomial<313, 6> { using ZPZ = aerobus::zpz<313>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<196>, ZPZV<213>, ZPZV<253>, ZPZV<10»; }; // NOLINT 03771 template<> struct ConwayPolynomial<313, 7> { using ZPZ = aerobus::zpz<313>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<4>, ZPZV<303»; };
                                                                                                    // NOLINT
03772 template<> struct ConwayPolynomial<313, 8> { using ZPZ = aerobus::zpz<313>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<306>, ZPZV<99>, ZPZV<106>, ZPZV<10»; }; //
       NOLINT
03773 template<> struct ConwayPolynomial<313, 9> { using ZPZ = aerobus::zpz<313>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<8>, ZPZV<267>, ZPZV<300>, ZPZV<303»;
       }: // NOLINT
03774 template<> struct ConwayPolynomial<317, 1> { using ZPZ = aerobus::zpz<317>; using type =
      POLYV<ZPZV<1>, ZPZV<315»; }; // NOLINT
03775 template<> struct ConwayPolynomial<317, 2> { using ZPZ = aerobus::zpz<317>; using type =
POLYV<ZPZV<1>, ZPZV<313, ZPZV<2»; }; // NOLINT
03776 template<> struct ConwayPolynomial<317, 3> { using ZPZ = aerobus::zpz<317>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<315»; }; // NOLINT

03777 template<> struct ConwayPolynomial<317, 4> { using ZPZ = aerobus::zpz<317>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1, ZPZV<0>, ZPZV<1, ZPZV<2>, ZPZV<2>; ; // NOLINT
03778 template<> struct ConwayPolynomial<317, 5> { using ZPZ = aerobus::zpz<317>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<315»; // NOLINT
03779 template<> struct ConwayPolynomial<317, 6> { using ZPZ = aerobus::zpz<317>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<195>, ZPZV<156>, ZPZV<4>, ZPZV<2»; }; // NOLINT
03780 template<> struct ConwayPolynomial<317, 7> { using ZPZ = aerobus::zpz<317>; using type
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<315»; // NOLINT
03781 template<> struct ConwayPolynomial<317, 8> { using ZPZ = aerobus::zpz<317>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<207>, ZPZV<85>, ZPZV<31>, ZPZV<2»; }; //
       NOT.TNT
03782 template<> struct ConwayPolynomial<317, 9> { using ZPZ = aerobus::zpz<317>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<284>, ZPZV<296>, ZPZV<315»;
       }; // NOLINT
03783 template<> struct ConwayPolynomial<331, 1> { using ZPZ = aerobus::zpz<331>; using type =
      POLYV<ZPZV<1>, ZPZV<328»; }; // NOLINT
03784 template<> struct ConwayPolynomial<331, 2> { using ZPZ = aerobus::zpz<331>; using type =
POLYV<ZPZV<1>, ZPZV<326>, ZPZV<3»; }; // NOLINT
03785 template<> struct ConwayPolynomial<331, 3> { using ZPZ = aerobus::zpz<331>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<328»; }; // NOLINT
03786 template<> struct ConwayPolynomial<331, 4> { using ZPZ = aerobus::zpz<331>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<290>, ZPZV<3»; }; // NOLINT
03787 template<> struct ConwayPolynomial<331, 5> { using ZPZ = aerobus::zpz<331>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<328»; }; // NOLINT
03788 template<> struct ConwayPolynomial<331, 6> { using ZPZ = aerobus::zpz<331>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<283>, ZPZV<205>, ZPZV<159>, ZPZV<3»; }; // NOLINT
03789 template<> struct ConwayPolynomial<331, 7> { using ZPZ = aerobus::zpz<331>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<328»; };
03790 template<> struct ConwayPolynomial<331, 8> { using ZPZ = aerobus::zpz<331>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<249>, ZPZV<308>, ZPZV<78>, ZPZV<38; }; //
       NOLINT
03791 template<> struct ConwayPolynomial<331, 9> { using ZPZ = aerobus::zpz<331>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<21>, ZPZV<210>, ZPZV<210>, ZPZV<328»;
       }; // NOLINT
03792 template<> struct ConwayPolynomial<337, 1> { using ZPZ = aerobus::zpz<337>; using type =
      POLYV<ZPZV<1>, ZPZV<327»; }; // NOLINT
03793 template<> struct ConwayPolynomial<337, 2> { using ZPZ = aerobus::zpz<337>; using type =
POLYV<ZPZV<1>, ZPZV<332>, ZPZV<10»; }; // NOLINT

03794 template<> struct ConwayPolynomial<337, 3> { using ZPZ = aerobus::zpz<337>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<327»; }; // NOLINT
03795 template<> struct ConwayPolynomial<337, 4> { using ZPZ = aerobus::zpz<337>; using type =
      03796 template<> struct ConwayPolynomial<337, 5> { using ZPZ = aerobus::zpz<337>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<327»; }; // NOLINT
03797 template<> struct ConwayPolynomial<337, 6> { using ZPZ = aerobus::zpz<337>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<216>, ZPZV<127>, ZPZV<109>, ZPZV<10»; }; //
03798 template<> struct ConwayPolynomial<337, 7> { using ZPZ = aerobus::zpz<337>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<327»; };
03799 template<> struct ConwayPolynomial<337, 8> { using ZPZ = aerobus::zpz<337>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<331>, ZPZV<246>, ZPZV<251>, ZPZV<10»; }; //
       NOLINT
03800 template<> struct ConwayPolynomial<337, 9> { using ZPZ = aerobus::zpz<337>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<148>, ZPZV<98>, ZPZV<327»;
       }; // NOLINT
03801 template<> struct ConwayPolynomial<347, 1> { using ZPZ = aerobus::zpz<347>; using type =
      POLYV<ZPZV<1>, ZPZV<345»; }; // NOLINT
03802 template<> struct ConwayPolynomial<347, 2> { using ZPZ = aerobus::zpz<347>; using type =
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POLYV<ZPZV<1>, ZPZV<343>, ZPZV<2»; };
                                                                   // NOLINT
03803 template<> struct ConwayPolynomial<347, 3> { using ZPZ = aerobus::zpz<347>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<9>, ZPZV<345»; }; // NOLINT
03804 template<> struct ConwayPolynomial<347, 4> { using ZPZ = aerobus::zpz<347>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<13>, ZPZV<295>, ZPZV<2»; }; // NOLINT
03805 template<> struct ConwayPolynomial<347, 5> { using ZPZ = aerobus::zpz<347>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<345»; }; // NOLINT
03806 template<> struct ConwayPolynomial<347, 6> { using ZPZ = aerobus::zpz<347>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<343>, ZPZV<26>, ZPZV<56>, ZPZV<2»; }; // NOLINT
03807 template<> struct ConwayPolynomial<347, 7> { using ZPZ = aerobus::zpz<347>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<345»; };
                                                                                                                                       // NOLINT
03808 template<> struct ConwayPolynomial<347, 8> { using ZPZ = aerobus::zpz<347>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<187>, ZPZV<213>, ZPZV<117>, ZPZV<2»; }; //
03809 template<> struct ConwayPolynomial<347, 9> { using ZPZ = aerobus::zpz<347>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<235>, ZPZV<252>, ZPZV<345»;
         1: // NOT.TNT
03810 template<> struct ConwayPolynomial<349, 1> { using ZPZ = aerobus::zpz<349>; using type =
         POLYV<ZPZV<1>, ZPZV<347»; }; // NOLINT
03811 template<> struct ConwayPolynomial<349, 2> { using ZPZ = aerobus::zpz<349>; using type =
         POLYV<ZPZV<1>, ZPZV<348>, ZPZV<2»; }; // NOLINT
03812 template<> struct ConwayPolynomial<349, 3> { using ZPZ = aerobus::zpz<349>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<347»; }; // NOLINT
03813 template<> struct ConwayPolynomial<349, 4> { using ZPZ = aerobus::zpz<349>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<279>, ZPZV<2»; }; // NOLINT
03814 template<> struct ConwayPolynomial<349, 5> { using ZPZ = aerobus::zpz<349>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<347»; }; // NOLINT
03815 template<> struct ConwayPolynomial<349, 6> { using ZPZ = aerobus::zpz<349>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<135>, ZPZV<177>, ZPZV<316>, ZPZV<2»; }; // NOLINT
03816 template<> struct ConwayPolynomial<349, 7> { using ZPZ = aerobus::zpz<349>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<31>, ZPZV<347»; }; // NOLINT
03817 template<> struct ConwayPolynomial<349, 8> { using ZPZ = aerobus::zpz<349>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<308>, ZPZV<328>, ZPZV<268>, ZPZV<28; }; //
         NOLINT
03818 template<> struct ConwayPolynomial<349, 9> { using ZPZ = aerobus::zpz<349>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<36>, ZPZV<290>, ZPZV<290>, ZPZV<347»;
         }; // NOLINT
03819 template<> struct ConwayPolynomial<353, 1> { using ZPZ = aerobus::zpz<353>; using type =
         POLYV<ZPZV<1>, ZPZV<350»; }; // NOLINT
03820 template<> struct ConwayPolynomial<353, 2> { using ZPZ = aerobus::zpz<353>; using type =
POLYV<ZPZV<1>, ZPZV<348>, ZPZV<3»; }; // NOLINT
03821 template<> struct ConwayPolynomial<353, 3> { using ZPZ = aerobus::zpz<353>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<350»; }; // NOLINT
03822 template<> struct ConwayPolynomial<353, 4> { using ZPZ = aerobus::zpz<353>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<199>, ZPZV<3»; }; // NOLINT
03823 template<> struct ConwayPolynomial<353, 5> { using ZPZ = aerobus::zpz<353>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<350»; }; // NOLINT
03824 template<> struct ConwayPolynomial<353, 6> { using ZPZ = aerobus::zpz<353>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<215>, ZPZV<26>, ZPZV<295>, ZPZV<3»; }; // NOLINT
03825 template<> struct ConwayPolynomial<353, 7> { using ZPZ = aerobus::zpz<353>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6, ZPZV
03826 template<> struct ConwayPolynomial<353, 8> { using ZPZ = aerobus::zpz<353>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<182>, ZPZV<26>, ZPZV<37>, ZPZV<3»; }; //
         NOLINT
03827 template<> struct ConwayPolynomial<353, 9> { using ZPZ = aerobus::zpz<353>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<319>, ZPZV<49>, ZPZV<350»;
03828 template<> struct ConwayPolynomial<359, 1> { using ZPZ = aerobus::zpz<359>; using type =
         POLYV<ZPZV<1>, ZPZV<352»; }; // NOLINT
03829 template<> struct ConwayPolynomial<359, 2> { using ZPZ = aerobus::zpz<359>; using type =
POLYV<ZPZV<1>, ZPZV<358, ZPZV<7»; }; // NOLINT
03830 template<> struct ConwayPolynomial<359, 3> { using ZPZ = aerobus::zpz<359>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<352»; }; // NOLINT
03831 template<> struct ConwayPolynomial<359, 4> { using ZPZ = aerobus::zpz<359>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<229>, ZPZV<7>»; }; // NOLINT
03832 template<> struct ConwayPolynomial<359, 5> { using ZPZ = aerobus::zpz<359>; using type =
         03833 template<> struct ConwayPolynomial<359, 6> { using ZPZ = aerobus::zpz<359>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<309>, ZPZV<327>, ZPZV<327>, ZPZV<7»; }; // NOLINT
03834 template<> struct ConwayPolynomial<359, 7> { using ZPZ = aerobus::zpz<359>;
                                                                                                                          using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<352»; };
03835 template<> struct ConwayPolynomial<359, 8> { using ZPZ = aerobus::zpz<359>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<301>, ZPZV<143>, ZPZV<271>, ZPZV<7»; }; //
         NOLINT
03836 template<> struct ConwayPolynomial<359, 9> { using ZPZ = aerobus::zpz<359>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<356>, ZPZV<165>, ZPZV<352»;
         }; // NOLINT
03837 template<> struct ConwayPolynomial<367, 1> { using ZPZ = aerobus::zpz<367>; using type =
         POLYV<ZPZV<1>, ZPZV<361»; }; // NOLINT
03838 template<> struct ConwayPolynomial<367, 2> { using ZPZ = aerobus::zpz<367>; using type =
POLYV<ZPZV<1>, ZPZV<366>, ZPZV<6»; }; // NOLINT
03839 template<> struct ConwayPolynomial<367, 3> { using ZPZ = aerobus::zpz<367>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<10>, ZPZV<361»; }; // NOLINT
03840 template<> struct ConwayPolynomial<367, 4> { using ZPZ = aerobus::zpz<367>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<295>, ZPZV<6»; }; // NOLINT
03841 template<> struct ConwayPolynomial<367, 5> { using ZPZ = aerobus::zpz<367>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<36in; }; // NOLINT
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03842 template<> struct ConwayPolynomial<367, 6> { using ZPZ = aerobus::zpz<367>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<22>, ZPZV<221>, ZPZV<324>, ZPZV<6»; }; // NOLINT 03843 template<> struct ConwayPolynomial<367, 7> { using ZPZ = aerobus::zpz<367>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<361»; }; // NOLINT
03844 template<> struct ConwayPolynomial<367, 8> { using ZPZ = aerobus::zpz<367>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<335>, ZPZV<282>, ZPZV<50>, ZPZV<6»; }; //
03845 template<> struct ConwayPolynomial<367, 9> { using ZPZ = aerobus::zpz<367>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<213>, ZPZV<268>, ZPZV<361»;
         }; // NOLINT
03846 template<> struct ConwayPolynomial<373, 1> { using ZPZ = aerobus::zpz<373>; using type =
         POLYV<ZPZV<1>, ZPZV<371»; }; // NOLINT
03847 template<> struct ConwayPolynomial<373, 2> { using ZPZ = aerobus::zpz<373>; using type =
         POLYV<ZPZV<1>, ZPZV<369>, ZPZV<2»; }; // NOLINT
03848 template<> struct ConwayPolynomial<373, 3> { using ZPZ = aerobus::zpz<373>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<371»; }; // NOLINT
03849 template<> struct ConwayPolynomial<373, 4> { using ZPZ = aerobus::zpz<373>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<15>, ZPZV<304>, ZPZV<2w; ); // NOLINT
03850 template<> struct ConwayPolynomial<373, 5> { using ZPZ = aerobus::zpz<373>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<371»; }; // NOLINT
03851 template<> struct ConwayPolynomial<373, 6> { using ZPZ = aerobus::zpz<373>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<126>, ZPZV<83>, ZPZV<108>, ZPZV<2»; }; // NOLINT
03852 template<> struct ConwayPolynomial<373, 7> { using ZPZ = aerobus::zpz<373>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<371»; }; // NOLINT 03853 template<> struct ConwayPolynomial<373, 8> { using ZPZ = aerobus::zpz<373>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<203>, ZPZV<219>, ZPZV<66>, ZPZV<2»; }; //
03854 template<> struct ConwayPolynomial<373, 9> { using ZPZ = aerobus::zpz<373>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<371»;
         }; // NOLINT
03855 template<> struct ConwayPolynomial<379, 1> { using ZPZ = aerobus::zpz<379>; using type =
         POLYV<ZPZV<1>, ZPZV<377»; }; // NOLINT
03856 template<> struct ConwayPolynomial<379, 2> { using ZPZ = aerobus::zpz<379>; using type =
         POLYV<ZPZV<1>, ZPZV<374>, ZPZV<2»; }; // NOLINT
O3857 template<> struct ConwayPolynomial<379, 3> { using ZPZ = aerobus::zpz<379>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<377»; }; // NOLINT

O3858 template<> struct ConwayPolynomial<379, 4> { using ZPZ = aerobus::zpz<379>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<327>, ZPZV<2»; }; // NOLINT

O3859 template<> struct ConwayPolynomial<379, 5> { using ZPZ = aerobus::zpz<379>; using type = using ZPZ = aerobus::zpz<379>; using ZPZ = ae
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<377»; }; // NOLINT
03860 template<> struct ConwayPolynomial<379, 6> { using ZPZ = aerobus::zpz<379>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<374>, ZPZV<364>, ZPZV<266>, ZPZV<29; }; // NOLINT
03861 template<> struct ConwayPolynomial<379, 7> { using ZPZ = aerobus::zpz<379>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<14>, ZPZV<14>, ZPZV<377»; }; // 1
03862 template<> struct ConwayPolynomial<379, 8> { using ZPZ = aerobus::zpz<379>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<210>, ZPZV<194>, ZPZV<173>, ZPZV<2»; }; //
         NOLINT
03863 template<> struct ConwayPolynomial<379, 9> { using ZPZ = aerobus::zpz<379>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<362>, ZPZV<369>, ZPZV<377»;
         }; // NOLINT
03864 template<> struct ConwayPolynomial<383, 1> { using ZPZ = aerobus::zpz<383>; using type =
         POLYV<ZPZV<1>, ZPZV<378»; }; // NOLINT
03865 template<> struct ConwayPolynomial<383, 2> { using ZPZ = aerobus::zpz<383>; using type =
POLYV<ZPZV<1>, ZPZV<382, ZPZV<5»; }; // NOLINT
03866 template<> struct ConwayPolynomial<383, 3> { using ZPZ = aerobus::zpz<383>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<378»; }; // NOLINT
03867 template<> struct ConwayPolynomial<383, 4> { using ZPZ = aerobus::zpz<383>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<30, ZPZV<309>, ZPZV<5»; }; // NOLINT
03868 template<> struct ConwayPolynomial<383, 5> { using ZPZ = aerobus::zpz<383>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<378»; }; // NOLINT
03869 template<> struct ConwayPolynomial<383, 6> { using ZPZ = aerobus::zpz<383>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<69>, ZPZV<8>, ZPZV<158>, ZPZV<158; }; // NOLINT
03870 template<> struct ConwayPolynomial<383, 7> { using ZPZ = aerobus::zpz<383>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<378»; };
03871 template<> struct ConwayPolynomial<383, 8> { using ZPZ = aerobus::zpz<383>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<281>, ZPZV<332>, ZPZV<296>, ZPZV<5»; }; //
         NOLINT
03872 template<> struct ConwayPolynomial<383, 9> { using ZPZ = aerobus::zpz<383>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<137>, ZPZV<76>, ZPZV<378»;
         }; // NOLINT
03873 template<> struct ConwayPolynomial<389, 1> { using ZPZ = aerobus::zpz<389>; using type =
         POLYV<ZPZV<1>, ZPZV<387»; }; // NOLINT
03874 template<> struct ConwayPolynomial<389, 2> { using ZPZ = aerobus::zpz<389>; using type =
POLYV<ZPZV<1>, ZPZV<379, ZPZV<2»; }; // NOLINT
03875 template<> struct ConwayPolynomial<389, 3> { using ZPZ = aerobus::zpz<389>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<387»; }; // NOLINT
03876 template<> struct ConwayPolynomial<389, 4> { using ZPZ = aerobus::zpz<389>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<266>, ZPZV<2»; }; // NOLINT
03877 template<> struct ConwayPolynomial<389, 5> { using ZPZ = aerobus::zpz<389>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<387»; // NOLINT
03878 template<> struct ConwayPolynomial<389, 6> { using ZPZ = aerobus::zpz<389>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<218>, ZPZV<339>, ZPZV<255>, ZPZV<2»; }; // NOLINT
03879 template<> struct ConwayPolynomial<389, 7> { using ZPZ = aerobus::zpz<389>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<24>, ZPZV<387»; };
03880 template<> struct ConwayPolynomial<389, 8> { using ZPZ = aerobus::zpz<389>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<351>, ZPZV<19>, ZPZV<290>, ZPZV<2»; }; //
         NOLTNT
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03881 template<> struct ConwayPolynomial<389, 9> { using ZPZ = aerobus::zpz<389>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<258>, ZPZV<308>, ZPZV<387»;
       }; // NOLINT
03882 template<> struct ConwayPolynomial<397, 1> { using ZPZ = aerobus::zpz<397>; using type =
       POLYV<ZPZV<1>, ZPZV<392»; }; // NOLINT
03883 template<> struct ConwayPolynomial<397, 2> { using ZPZ = aerobus::zpz<397>; using type =
       POLYV<ZPZV<1>, ZPZV<392>, ZPZV<5»; }; // NOLINT
03884 template<> struct ConwayPolynomial<397, 3> { using ZPZ = aerobus::zpz<397>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<392»; }; // NOLINT
03885 template<> struct ConwayPolynomial<397, 4> { using ZPZ = aerobus::zpz<397>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<363>, ZPZV<5»; }; // NOLINT
03886 template<> struct ConwayPolynomial<397, 5> { using ZPZ = aerobus::zpz<397>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<392»; }; // NOLINT
03887 template<> struct ConwayPolynomial<397, 6> { using ZPZ = aerobus::zpz<397>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<382>, ZPZV<274>, ZPZV<287>, ZPZV<5»; }; // NOLINT
03888 template<> struct ConwayPolynomial<397, 7> { using ZPZ = aerobus::zpz<397>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<392»; }; // NOLINT
03889 template<> struct ConwayPolynomial<397, 8> { using ZPZ = aerobus::zpz<397>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<375>, ZPZV<255>, ZPZV<203>, ZPZV<5»; }; //
03890 template<> struct ConwayPolynomial<397, 9> { using ZPZ = aerobus::zpz<397>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<66>, ZPZV<252>, ZPZV<392»;
       }; // NOLINT
03891 template<> struct ConwayPolynomial<401, 1> { using ZPZ = aerobus::zpz<401>; using type =
       POLYV<ZPZV<1>, ZPZV<398»; }; // NOLINT
03892 template<> struct ConwayPolynomial<401, 2> { using ZPZ = aerobus::zpz<401>; using type =
       POLYV<ZPZV<1>, ZPZV<396>, ZPZV<3»; }; // NOLINT
03893 template<> struct ConwayPolynomial<401, 3> { using ZPZ = aerobus::zpz<401>; using type =
POLYY<ZPZV<1>, ZPZV<3>, ZPZV<3>, ZPZV<398»; // NOLINT

03894 template<> struct ConwayPolynomial<401, 4> { using ZPZ = aerobus::zpz<401>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<372>, ZPZV<3»; }; // NOLINT

03895 template<> struct ConwayPolynomial<401, 5> { using ZPZ = aerobus::zpz<401>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<398»; }; // NOLINT
03896 template<> struct ConwayPolynomial<401, 6> { using ZPZ = aerobus::zpz<401>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<115>, ZPZV<81>, ZPZV<51>, ZPZV<3»; }; // NOLINT 03897 template<> struct ConwayPolynomial<401, 7> { using ZPZ = aerobus::zpz<401>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<398»; };
                                                                                                        // NOLINT
03898 template<> struct ConwayPolynomial<401, 8> { using ZPZ = aerobus::zpz<401>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<380>, ZPZV<113>, ZPZV<164>, ZPZV<3»; }; //
03899 template<> struct ConwayPolynomial<401, 9> { using ZPZ = aerobus::zpz<401>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<199>, ZPZV<158>, ZPZV<398»;
       }: // NOLINT
03900 template<> struct ConwayPolynomial<409, 1> { using ZPZ = aerobus::zpz<409>; using type =
       POLYV<ZPZV<1>, ZPZV<388»; }; // NOLINT
03901 template<> struct ConwayPolynomial<409, 2> { using ZPZ = aerobus::zpz<409>; using type =
POLYV<ZPZV<1>, ZPZV<404, ZPZV<21»; }; // NOLINT
03902 template<> struct ConwayPolynomial<409, 3> { using ZPZ = aerobus::zpz<409>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<388»; }; // NOLINT
03903 template<> struct ConwayPolynomial<409, 4> { using ZPZ = aerobus::zpz<409>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<407>, ZPZV<21»; }; // NOLINT
03904 template<> struct ConwayPolynomial<409, 5> { using ZPZ = aerobus::zpz<409>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<58*, }; // NOLINT
03905 template<> struct ConwayPolynomial<409, 6> { using ZPZ = aerobus::zpz<409>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<372>, ZPZV<53>, ZPZV<364>, ZPZV<21»; }; // NOLINT 03906 template<> struct ConwayPolynomial<409, 7> { using ZPZ = aerobus::zpz<409>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<388»; };
03907 template<> struct ConwayPolynomial<409, 8> { using ZPZ = aerobus::zpz<409>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<256>, ZPZV<69>, ZPZV<396>, ZPZV<31»; }; //
       NOLINT
03908 template<> struct ConwayPolynomial<409, 9> { using ZPZ = aerobus::zpz<409>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<31>, ZPZV<318>, ZPZV<211>, ZPZV<388»;
       }; // NOLINT
03909 template<> struct ConwayPolynomial<419, 1> { using ZPZ = aerobus::zpz<419>; using type =
       POLYV<ZPZV<1>, ZPZV<417»; }; // NOLINT
03910 template<> struct ConwayPolynomial<419, 2> { using ZPZ = aerobus::zpz<419>; using type =
POLYV<ZPZV<1>, ZPZV<418>, ZPZV<2»; }; // NOLINT
03911 template<> struct ConwayPolynomial<419, 3> { using ZPZ = aerobus::zpz<419>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<417»; }; // NOLINT
03912 template<> struct ConwayPolynomial<419, 4> { using ZPZ = aerobus::zpz<419>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<373>, ZPZV<2»; }; // NOLINT
03913 template<> struct ConwayPolynomial<419, 5> { using ZPZ = aerobus::zpz<419>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<417»; }; // NOLINT
03914 template<> struct ConwayPolynomial<419, 6> { using ZPZ = aerobus::zpz<419>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<411>, ZPZV<3>, ZPZV<25>, ZPZV<25; }; // NOLINT 03915 template<> struct ConwayPolynomial<419, 7> { using ZPZ = aerobus::zpz<419>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<417»; };
03916 template<> struct ConwayPolynomial<419, 8> { using ZPZ = aerobus::zpz<419>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<234>, ZPZV<388>, ZPZV<151>, ZPZV<2»; }; //
       NOLINT
03917 template<> struct ConwayPolynomial<419, 9> { using ZPZ = aerobus::zpz<419>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<93>, ZPZV<386>, ZPZV<417»;
03918 template<> struct ConwayPolynomial<421, 1> { using ZPZ = aerobus::zpz<421>; using type =
       POLYV<ZPZV<1>, ZPZV<419»; }; // NOLINT
03919 template<> struct ConwayPolynomial<421, 2> { using ZPZ = aerobus::zpz<421>; using type =
       POLYV<ZPZV<1>, ZPZV<417>, ZPZV<2»; }; // NOLINT
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03920 template<> struct ConwayPolynomial<421, 3> { using ZPZ = aerobus::zpz<421>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<419»; }; // NOLINT
03921 template<> struct ConwayPolynomial<421, 4> { using ZPZ = aerobus::zpz<421>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<10>, ZPZV<257>, ZPZV<2»; }; // NOLINT
03922 template<> struct ConwayPolynomial<421, 5> { using ZPZ = aerobus::zpz<421>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<419»; }; // NOLINT
03923 template<> struct ConwayPolynomial<421, 6> { using ZPZ = aerobus::zpz<421>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<111>, ZPZV<342>, ZPZV<41>, ZPZV<2»; }; // NOLINT
03924 template<> struct ConwayPolynomial<421, 7> { using ZPZ = aerobus::zpz<421>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<21>, ZPZV<419»; }; // NOLINT
03925 template<> struct ConwayPolynomial<421, 8> { using ZPZ = aerobus::zpz<421>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<389>, ZPZV<32>, ZPZV<77>, ZPZV<2»; }; //
       NOLTNT
03926 template<> struct ConwayPolynomial<421, 9> { using ZPZ = aerobus::zpz<421>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<18>, ZPZV<394>, ZPZV<145>, ZPZV<419»;
       }; // NOLINT
03927 template<> struct ConwayPolynomial<431, 1> { using ZPZ = aerobus::zpz<431>; using type =
       POLYV<ZPZV<1>, ZPZV<424»; }; // NOLINT
03928 template<> struct ConwayPolynomial<431, 2> { using ZPZ = aerobus::zpz<431>; using type =
       POLYV<ZPZV<1>, ZPZV<430>, ZPZV<7»; }; // NOLINT
03929 template<> struct ConwayPolynomial<431, 3> { using ZPZ = aerobus::zpz<431>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<424»; }; // NOLINT
03930 template<> struct ConwayPolynomial<431, 4> { using ZPZ = aerobus::zpz<431>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<323>, ZPZV<7»; }; // NOLINT
03931 template<> struct ConwayPolynomial<431, 5> { using ZPZ = aerobus::zpz<431>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<424»; }; // NOLINT
03932 template<> struct ConwayPolynomial<431, 6> { using ZPZ = aerobus::zpz<431>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<161>, ZPZV<202>, ZPZV<182>, ZPZV<7»; }; // NOLINT
03933 template<> struct ConwayPolynomial<431, 7> { using ZPZ = aerobus::zpz<431>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<424»; };
                                                                                                          // NOLINT
03934 template<> struct ConwayPolynomial<431, 8> { using ZPZ = aerobus::zpz<431>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<243>, ZPZV<286>, ZPZV<115>, ZPZV<7»; }; //
03935 template<> struct ConwayPolynomial<431, 9> { using ZPZ = aerobus::zpz<431>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<71>, ZPZV<329>, ZPZV<424%;
       }; // NOLINT
03936 template<> struct ConwayPolynomial<433, 1> { using ZPZ = aerobus::zpz<433>; using type =
       POLYV<ZPZV<1>, ZPZV<428»; }; // NOLINT
03937 template<> struct ConwayPolynomial<433, 2> { using ZPZ = aerobus::zpz<433>; using type =
       POLYV<ZPZV<1>, ZPZV<432>, ZPZV<5»; }; // NOLINT
03938 template<> struct ConwayPolynomial<433, 3> { using ZPZ = aerobus::zpz<433>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<428»; }; // NOLINT
03939 template<> struct ConwayPolynomial<433, 4> { using ZPZ = aerobus::zpz<433>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<402>, ZPZV<5»; }; // NOLINT
03940 template<> struct ConwayPolynomial<433, 5> { using ZPZ = aerobus::zpz<433>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<428»; }; // NOLINT
03941 template<> struct ConwayPolynomial<433, 6> { using ZPZ = aerobus::zpz<433>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<244>, ZPZV<353>, ZPZV<360>, ZPZV<5»; }; // NOLINT
03942 template<> struct ConwayPolynomial<433, 7> { using ZPZ = aerobus::zpz<433>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<428»; }; // NOLINT
03943 template<> struct ConwayPolynomial<433, 8> { using ZPZ = aerobus::zpz<433>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<347>, ZPZV<32>, ZPZV<39>, ZPZV<5»; }; //
       NOLINT
03944 template<> struct ConwayPolynomial<433, 9> { using ZPZ = aerobus::zpz<433>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<428»;
       }; // NOLINT
03945 template<> struct ConwayPolynomial<439, 1> { using ZPZ = aerobus::zpz<439>; using type =
       POLYV<ZPZV<1>, ZPZV<424»; }; // NOLINT
03946 template<> struct ConwayPolynomial<439, 2> { using ZPZ = aerobus::zpz<439>; using type =
POLYV<ZPZV<1>, ZPZV<436>, ZPZV<15»; }; // NOLINT

03947 template<> struct ConwayPolynomial<439, 3> { using ZPZ = aerobus::zpz<439>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<424»; }; // NOLINT
03948 template<> struct ConwayPolynomial<439, 4> { using ZPZ = aerobus::zpz<439>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<323>, ZPZV<15»; }; // NOLINT
03949 template<> struct ConwayPolynomial<439, 5> { using ZPZ = aerobus::zpz<439>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<424»; }; // NOLINT
03950 template<> struct ConwayPolynomial<439, 6> { using ZPZ = aerobus::zpz<439>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<324>, ZPZV<190>, ZPZV<15»; }; // NOLINT
03951 template<> struct ConwayPolynomial<439, 7> { using ZPZ = aerobus::zpz<439>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<424»; };
03952 template<> struct ConwayPolynomial<439, 8> { using ZPZ = aerobus::zpz<439>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<359>, ZPZV<296>, ZPZV<266>, ZPZV<15»; }; //
       NOLINT
03953 template<> struct ConwayPolynomial<439, 9> { using ZPZ = aerobus::zpz<439>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<16>, ZPZV<342>, ZPZV<254>, ZPZV<424»;
       }; // NOLINT
03954 template<> struct ConwayPolynomial<443, 1> { using ZPZ = aerobus::zpz<443>; using type =
       POLYV<ZPZV<1>, ZPZV<441»; }; // NOLINT
03955 template<> struct ConwayPolynomial<443, 2> { using ZPZ = aerobus::zpz<443>; using type =
       POLYV<ZPZV<1>, ZPZV<437>, ZPZV<2»; }; // NOLINT
03956 template<> struct ConwayPolynomial<4443, 3> { using ZPZ = aerobus::zpz<4443>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<441»; }; // NOLINT
03957 template<> struct ConwayPolynomial<443, 4> { using ZPZ = aerobus::zpz<443>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<383>, ZPZV<2»; }; // NOLINT
03958 template<> struct ConwayPolynomial<443, 5> { using ZPZ = aerobus::zpz<443>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<44, ZPZV<441»; }; // NOLINT 03959 template<> struct ConwayPolynomial<443, 6> { using ZPZ = aerobus::zpz<443>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<298>, ZPZV<218>, ZPZV<41>, ZPZV<2»; };
03960 template<> struct ConwayPolynomial<443, 7> { using ZPZ = aerobus::zpz<443>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<641»; };
                                                                                                    // NOLINT
03961 template<> struct ConwayPolynomial<443, 8> { using ZPZ = aerobus::zpz<443>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<437>, ZPZV<217>, ZPZV<290>, ZPZV<2»; }; //
      NOT.TNT
03962 template<> struct ConwayPolynomial<443, 9> { using ZPZ = aerobus::zpz<443>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<125>, ZPZV<109>, ZPZV<441»;
       }; // NOLINT
03963 template<> struct ConwayPolynomial<449, 1> { using ZPZ = aerobus::zpz<449>; using type =
      POLYV<ZPZV<1>, ZPZV<446»; }; // NOLINT
03964 template<> struct ConwayPolynomial<449, 2> { using ZPZ = aerobus::zpz<449>; using type =
      POLYV<ZPZV<1>, ZPZV<444>, ZPZV<3»; };
                                                 // NOLINT
03965 template<> struct ConwayPolynomial<449, 3> { using ZPZ = aerobus::zpz<449>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<446»; }; // NOLINT
03966 template<> struct ConwayPolynomial<449, 4> { using ZPZ = aerobus::zpz<449>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<249>, ZPZV<3»; }; // NOLINT
03967 template<> struct ConwayPolynomial<449, 5> { using ZPZ = aerobus::zpz<449>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<446»; }; // NOLINT
03968 template<> struct ConwayPolynomial<449, 6> { using ZPZ = aerobus::zpz<449>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<437>, ZPZV<293>, ZPZV<69>, ZPZV<3»; }; // NOLINT
03969 template<> struct ConwayPolynomial<449, 7> { using ZPZ = aerobus::zpz<449>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<446»; }; // NOLINT
03970 template<> struct ConwayPolynomial<449, 8> { using ZPZ = aerobus::zpz<449>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<361>, ZPZV<348>, ZPZV<124>, ZPZV<3*; }; //
      NOLINT
03971 template<> struct ConwayPolynomial<449, 9> { using ZPZ = aerobus::zpz<449>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<26>, ZPZV<26>, ZPZV<29>, ZPZV<446»; };
       // NOLINT
03972 template<> struct ConwayPolynomial<457, 1> { using ZPZ = aerobus::zpz<457>; using type =
      POLYV<ZPZV<1>, ZPZV<444*; }; // NOLINT
03973 template<> struct ConwayPolynomial<457, 2> { using ZPZ = aerobus::zpz<457>; using type =
POLYV<ZPZV<1>, ZPZV<454>, ZPZV<13s; }; // NOLINT
03974 template<> struct ConwayPolynomial<457, 3> { using ZPZ = aerobus::zpz<457>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<444*); }; // NOLINT
03975 template<> struct ConwayPolynomial<457, 4> { using ZPZ = aerobus::zpz<457>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<407>, ZPZV<13»; }; // NOLINT
03976 template<> struct ConwayPolynomial<457, 5> { using ZPZ = aerobus::zpz<457>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<44*, }; // NOLINT
03977 template<> struct ConwayPolynomial<457, 6> { using ZPZ = aerobus::zpz<457>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<205>, ZPZV<389>, ZPZV<266>, ZPZV<13»; }; // NOLINT
03978 template<> struct ConwayPolynomial<457, 7> { using ZPZ = aerobus::zpz<457>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<14>, ZPZV<444»; }; // NOLINT
03979 template<> struct ConwayPolynomial<457, 8> { using ZPZ = aerobus::zpz<457>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<365>, ZPZV<296>, ZPZV<412>, ZPZV<13»; }; //
      NOLINT
03980 template<> struct ConwayPolynomial<457, 9> { using ZPZ = aerobus::zpz<457>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<354>, ZPZV<844*;
      }; // NOLINT
03981 template<> struct ConwayPolynomial<461, 1> { using ZPZ = aerobus::zpz<461>; using type =
      POLYV<ZPZV<1>, ZPZV<459»; }; // NOLINT
03982 template<> struct ConwayPolynomial<461, 2> { using ZPZ = aerobus::zpz<461>; using type =
      POLYV<ZPZV<1>, ZPZV<460>, ZPZV<2»; }; // NOLINT
03983 template<> struct ConwayPolynomial<461, 3> { using ZPZ = aerobus::zpz<461>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<459»; // NOLINT
03984 template<> struct ConwayPolynomial<461, 4> { using ZPZ = aerobus::zpz<461>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<393>, ZPZV<2»; }; // NOLINT
03985 template<> struct ConwayPolynomial<461, 5> { using ZPZ = aerobus::zpz<461>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<14>, ZPZV<45*; }; // NOLINT
03986 template<> struct ConwayPolynomial<461, 6> { using ZPZ = aerobus::zpz<461>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<439>, ZPZV<432>, ZPZV<329>, ZPZV<2»; }; // NOLINT 03987 template<> struct ConwayPolynomial<461, 7> { using ZPZ = aerobus::zpz<461>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<459»; };
                                                                                                   // NOLINT
03988 template<> struct ConwayPolynomial<461, 8> { using ZPZ = aerobus::zpz<461>; using type
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<388>, ZPZV<449>, ZPZV<321>, ZPZV<2»; }; //
      NOLINT
03989 template<> struct ConwayPolynomial<461, 9> { using ZPZ = aerobus::zpz<461>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<210>, ZPZV<216>, ZPZV<459»;
      }; // NOLINT
03990 template<> struct ConwayPolynomial<463, 1> { using ZPZ = aerobus::zpz<463>; using type =
      POLYV<ZPZV<1>, ZPZV<460»; }; // NOLINT
03991 template<> struct ConwayPolynomial<463, 2> { using ZPZ = aerobus::zpz<463>; using type =
POLYV<ZPZV<1>, ZPZV<461, ZPZV<3»; }; // NOLINT
03992 template<> struct ConwayPolynomial<463, 3> { using ZPZ = aerobus::zpz<463>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<10>, ZPZV<460»; }; // NOLINT
03993 template<> struct ConwayPolynomial<463, 4> { using ZPZ = aerobus::zpz<463>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<17>, ZPZV<262>, ZPZV<3»; }; // NOLINT
03994 template<> struct ConwayPolynomial<463, 5> { using ZPZ = aerobus::zpz<463>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<460»; }; // NOLINT
03995 template<> struct ConwayPolynomial<463, 6> { using ZPZ = aerobus::zpz<463>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<462>, ZPZV<51>, ZPZV<110>, ZPZV<3»; }; // NOLINT
03996 template<> struct ConwayPolynomial<463, 7> { using ZPZ = aerobus::zpz<463>; using type
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<460»; }; // NOLINT
03997 template<> struct ConwayPolynomial<463, 8> { using ZPZ = aerobus::zpz<463>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<234>, ZPZV<414>, ZPZV<396>, ZPZV<3»; }; //
      NOLINT
03998 template<> struct ConwayPolynomial<463, 9> { using ZPZ = aerobus::zpz<463>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<460»;
03999 template<> struct ConwayPolynomial<467, 1> { using ZPZ = aerobus::zpz<467>; using type =
      POLYV<ZPZV<1>, ZPZV<465»; }; // NOLINT
04000 template<> struct ConwayPolynomial<467, 2> { using ZPZ = aerobus::zpz<467>; using type =
POLYV<ZPZV<1>, ZPZV<463>, ZPZV<2»; }; // NOLINT
04001 template<> struct ConwayPolynomial<467, 3> { using ZPZ = aerobus::zpz<467>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<465»; }; // NOLINT
04002 template<> struct ConwayPolynomial<467, 4> { using ZPZ = aerobus::zpz<467>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<353>, ZPZV<2»; }; // NOLINT
04003 template<> struct ConwayPolynomial<467, 5> { using ZPZ = aerobus::zpz<467>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<465»; }; // NOLINT
04004 template<> struct ConwayPolynomial<467, 6> { using ZPZ = aerobus::zpz<467>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<123>, ZPZV<62>, ZPZV<237>, ZPZV<2»; }; // NOLINT
04005 template<> struct ConwayPolynomial<467, 7> { using ZPZ = aerobus::zpz<467>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<465»; };
04006 template<> struct ConwayPolynomial<467, 8> { using ZPZ = aerobus::zpz<467>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<318>, ZPZV<413>, ZPZV<289>, ZPZV<2»; }; //
       NOLINT
04007 template<> struct ConwayPolynomial<467, 9> { using ZPZ = aerobus::zpz<467>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<397>, ZPZV<3447>, ZPZV<465»;
       }; // NOLINT
04008 template<> struct ConwayPolynomial<479, 1> { using ZPZ = aerobus::zpz<479>; using type =
      POLYV<ZPZV<1>, ZPZV<466»; }; // NOLINT
04009 template<> struct ConwayPolynomial<479, 2> { using ZPZ = aerobus::zpz<479>; using type =
       POLYV<ZPZV<1>, ZPZV<474>, ZPZV<13»; }; // NOLINT
04010 template<> struct ConwayPolynomial<479, 3> { using ZPZ = aerobus::zpz<479>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<466»; }; // NOLINT
04011 template<> struct ConwayPolynomial<479, 4> { using ZPZ = aerobus::zpz<479>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<386>, ZPZV<13»; }; // NOLINT
04012 template<> struct ConwayPolynomial<479, 5> { using ZPZ = aerobus::zpz<479>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<466»; }; // NOLINT
04013 template<> struct ConwayPolynomial<479, 6> { using ZPZ = aerobus::zpz<479>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<243>, ZPZV<287>, ZPZV<334>, ZPZV<13»; }; // NOLINT
04014 template<> struct ConwayPolynomial<479, 7> { using ZPZ = aerobus::zpz<479>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<466»; };
04015 template<> struct ConwayPolynomial<479, 8> { using ZPZ = aerobus::zpz<479>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<247>, ZPZV<440>, ZPZV<17>, ZPZV<13»; }; //
04016 template<> struct ConwayPolynomial<479, 9> { using ZPZ = aerobus::zpz<479>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<3>, ZPZV<3>, ZPZV<185>, ZPZV<466»; };
       // NOLINT
04017 template<> struct ConwayPolynomial<487, 1> { using ZPZ = aerobus::zpz<487>; using type =
       POLYV<ZPZV<1>, ZPZV<484»; }; // NOLINT
04018 template<> struct ConwayPolynomial<487, 2> { using ZPZ = aerobus::zpz<487>; using type =
       POLYV<ZPZV<1>, ZPZV<485>, ZPZV<3»; };
                                                  // NOLINT
04019 template<> struct ConwayPolynomial<487, 3> { using ZPZ = aerobus::zpz<487>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<484»; }; // NOLINT
04020 template<> struct ConwayPolynomial<487, 4> { using ZPZ = aerobus::zpz<487>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<48, ZPZV<483, ZPZV<3»; }; // NOLINT
04021 template<> struct ConwayPolynomial<487, 5> { using ZPZ = aerobus::zpz<487>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<484»; }; // NOLINT
04022 template<> struct ConwayPolynomial<487, 6> { using ZPZ = aerobus::zpz<487>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<450>, ZPZV<427>, ZPZV<185>, ZPZV<3»; }; // NOLINT 04023 template<> struct ConwayPolynomial<487, 7> { using ZPZ = aerobus::zpz<487>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<7>, ZPZV<484*; }; // 04024 template<> struct ConwayPolynomial<487, 8> { using ZPZ = aerobus::zpz<487>; using type
                                                                                                    // NOLINT
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<283>, ZPZV<249>, ZPZV<137>, ZPZV<3»; }; //
       NOLINT
04025 template<> struct ConwayPolynomial<487, 9> { using ZPZ = aerobus::zpz<487>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<271>, ZPZV<447>, ZPZV<484»;
       }; // NOLINT
04026 template<> struct ConwayPolynomial<491, 1> { using ZPZ = aerobus::zpz<491>; using type =
       POLYV<ZPZV<1>, ZPZV<489»; }; // NOLINT
04027 template<> struct ConwayPolynomial<491, 2> { using ZPZ = aerobus::zpz<491>; using type =
      POLYV<ZPZV<1>, ZPZV<487>, ZPZV<2»; }; // NOLINT
04028 template<> struct ConwayPolynomial<491, 3> { using ZPZ = aerobus::zpz<491>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<489»; }; // NOLINT
04029 template<> struct ConwayPolynomial<491, 4> { using ZPZ = aerobus::zpz<491>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<360>, ZPZV<2»; }; // NOLINT
04030 template<> struct ConwayPolynomial<491, 5> { using ZPZ = aerobus::zpz<491>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<489»; }; // NOLINT
04031 template<> struct ConwayPolynomial<491, 6> { using ZPZ = aerobus::zpz<491>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<369>, ZPZV<402>, ZPZV<125>, ZPZV<2»; }; // NOLINT 04032 template<> struct ConwayPolynomial<491, 7> { using ZPZ = aerobus::zpz<491>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<489»; }; // NOLINT
04033 template<> struct ConwayPolynomial<491, 8> { using ZPZ = aerobus::zpz<491>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<378>, ZPZV<372>, ZPZV<216>, ZPZV<2»; }; //
       NOLTNT
04034 template<> struct ConwayPolynomial<491, 9> { using ZPZ = aerobus::zpz<491>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<489»;
       }; // NOLINT
04035 template<> struct ConwayPolynomial<499, 1> { using ZPZ = aerobus::zpz<499>; using type =
      POLYV<ZPZV<1>, ZPZV<492»; }; // NOLINT
04036 template<> struct ConwayPolynomial<499, 2> { using ZPZ = aerobus::zpz<499>; using type =
POLYV<ZPZV<1>, ZPZV<493>, ZPZV<7»; }; // NOLINT
04037 template<> struct ConwayPolynomial<499, 3> { using ZPZ = aerobus::zpz<499>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<492»; };
04038 template<> struct ConwayPolynomial
499, 4> { using ZPZ = aerobus::zpz<499>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<495>, ZPZV<7»; }; // NOLINT</p>
04039 template<> struct ConwayPolynomial<499, 5> { using ZPZ = aerobus::zpz<499>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<17>, ZPZV<492»; }; // NOLINT
04040 template<> struct ConwayPolynomial<499, 6> { using ZPZ = aerobus::zpz<499>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<407>, ZPZV<191>, ZPZV<78>, ZPZV<7»; }; // NOLINT
04041 template<> struct ConwayPolynomial<499, 7> { using ZPZ = aerobus::zpz<499>;
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<492»; };
04042 template<> struct ConwayPolynomial<499, 8> { using ZPZ = aerobus::zpz<499>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<288>, ZPZV<309>, ZPZV<200>, ZPZV<7»; }; //
       NOLINT
04043 template<> struct ConwayPolynomial<499, 9> { using ZPZ = aerobus::zpz<499>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<491>, ZPZV<222>, ZPZV<492»;
       }; // NOLINT
04044 template<> struct ConwayPolynomial<503, 1> { using ZPZ = aerobus::zpz<503>; using type =
       POLYV<ZPZV<1>, ZPZV<498»; }; // NOLINT
04045 template<> struct ConwayPolynomial<503, 2> { using ZPZ = aerobus::zpz<503>; using type =
       POLYV<ZPZV<1>, ZPZV<498>, ZPZV<5»; }; // NOLINT
04046 template<> struct ConwayPolynomial<503, 3> { using ZPZ = aerobus::zpz<503>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<498»; }; // NOLINT
04047 template<> struct ConwayPolynomial<503, 4> { using ZPZ = aerobus::zpz<503>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<6>, ZPZV<325>, ZPZV<5»; }; // NOLINT
04048 template<> struct ConwayPolynomial<503, 5> { using ZPZ = aerobus::zpz<503>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<498»; }; // NOLINT
04049 template<> struct ConwayPolynomial<503, 6> { using ZPZ = aerobus::zpz<503>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<380>, ZPZV<292>, ZPZV<255>, ZPZV<5»; }; // NOLINT
04050 template<> struct ConwayPolynomial<503, 7> { using ZPZ = aerobus::zpz<503>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<498»; };
04051 template<> struct ConwayPolynomial<503, 8> { using ZPZ = aerobus::zpz<503>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<441>, ZPZV<203>, ZPZV<316>, ZPZV<5»; }; //
       NOLINT
04052 template<> struct ConwayPolynomial<503, 9> { using ZPZ = aerobus::zpz<503>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<158>, ZPZV<337>, ZPZV<498»;
       }; // NOLINT
04053 template<> struct ConwayPolynomial<509, 1> { using ZPZ = aerobus::zpz<509>; using type =
       POLYV<ZPZV<1>, ZPZV<507»; }; // NOLINT
04054 template<> struct ConwayPolynomial<509, 2> { using ZPZ = aerobus::zpz<509>; using type =
       POLYV<ZPZV<1>, ZPZV<508>, ZPZV<2»; };
                                                     // NOLINT
04055 template<> struct ConwayPolynomial<509, 3> { using ZPZ = aerobus::zpz<509>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<507»; }; // NOLINT
04056 template<> struct ConwayPolynomial<509, 4> { using ZPZ = aerobus::zpz<509>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<408>, ZPZV<2»; }; // NOLINT
04057 template<> struct ConwayPolynomial<509, 5> { using ZPZ = aerobus::zpz<509>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<507»; }; // NOLINT
04058 template<> struct ConwayPolynomial<509, 6> { using ZPZ = aerobus::zpz<509>; using type =
        \texttt{POLYV} < \texttt{ZPZV} < 1>, \ \texttt{ZPZV} < 0>, \ \texttt{ZPZV} < 1>, \ \texttt{ZPZV} < 350>, \ \texttt{ZPZV} < 232>, \ \texttt{ZPZV} < 41>, \ \texttt{ZPZV} < 29; \ \ \}; \ \ // \ \texttt{NOLINT} 
04059 template<> struct ConwayPolynomial<509, 7> { using ZPZ = aerobus::zpz<509>; using type :
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<507»; };
                                                                                                          // NOLINT
04060 template<> struct ConwayPolynomial<509, 8> { using ZPZ = aerobus::zpz<509>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<420>, ZPZV<473>, ZPZV<382>, ZPZV<2»; }; //
04061 template<> struct ConwayPolynomial<509, 9> { using ZPZ = aerobus::zpz<509>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<314>, ZPZV<314>, ZPZV<28>, ZPZV<507»;
       }; // NOLINT
04062 template<> struct ConwayPolynomial<521, 1> { using ZPZ = aerobus::zpz<521>; using type =
       POLYV<ZPZV<1>, ZPZV<518»; }; // NOLINT
04063 template<> struct ConwayPolynomial<521, 2> { using ZPZ = aerobus::zpz<521>; using type =
       POLYV<ZPZV<1>, ZPZV<515>, ZPZV<3»; }; // NOLINT
04064 template<> struct ConwayPolynomial<521, 3> { using ZPZ = aerobus::zpz<521>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<518»; }; // NOLINT
04065 template<> struct ConwayPolynomial<521, 4> { using ZPZ = aerobus::zpz<521>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<509>, ZPZV<3»; }; // NOLINT
04066 template<> struct ConwayPolynomial<521, 5> { using ZPZ = aerobus::zpz<521>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<518»; }; // NOLINT
04067 template<> struct ConwayPolynomial<521, 6> { using ZPZ = aerobus::zpz<521>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<315>, ZPZV<153>, ZPZV<280>, ZPZV<3»; }; // NOLINT
04068 template<> struct ConwayPolynomial<521, 7> { using ZPZ = aerobus::zpz<521>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<518»; }; // NOLINT
04069 template<> struct ConwayPolynomial<521, 8> { using ZPZ = aerobus::zpz<521>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<462>, ZPZV<407>, ZPZV<312>, ZPZV<3»; }; //
       NOLINT
04070 template<> struct ConwayPolynomial<521, 9> { using ZPZ = aerobus::zpz<521>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<181>, ZPZV<483>, ZPZV<483>, ZPZV<518»;
       }; // NOLINT
04071 template<> struct ConwayPolynomial<523, 1> { using ZPZ = aerobus::zpz<523>; using type =
       POLYV<ZPZV<1>, ZPZV<521»; }; // NOLINT
04072 template<> struct ConwayPolynomial<523, 2> { using ZPZ = aerobus::zpz<523>; using type =
POLYV<ZPZV<1>, ZPZV<522, ZPZV<2»; }; // NOLINT
04073 template<> struct ConwayPolynomial<523, 3> { using ZPZ = aerobus::zpz<523>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<521»; }; // NOLINT
04074 template<> struct ConwayPolynomial<523, 4> { using ZPZ = aerobus::zpz<523>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<382>, ZPZV<382>, ZPZV<2»; }; // NOLINT
04075 template<> struct ConwayPolynomial<523, 5> { using ZPZ = aerobus::zpz<523>; using type =
       04076 template<> struct ConwayPolynomial<523, 6> { using ZPZ = aerobus::zpz<523>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<475>, ZPZV<475>, ZPZV<371>, ZPZV<2»; }; // NOLINT
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04077 template<> struct ConwayPolynomial<523, 7> { using ZPZ = aerobus::zpz<523>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5, ZPZV<13>, ZPZV<521»; }; // NOLINT
04078 template<> struct ConwayPolynomial<523, 8> { using ZPZ = aerobus::zpz<523>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<518>, ZPZV<184>, ZPZV<380>, ZPZV<2»; }; //
       NOLINT
04079 template<> struct ConwayPolynomial<523, 9> { using ZPZ = aerobus::zpz<523>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<19>, ZPZV<342>, ZPZV<145>, ZPZV<521»;
       }; // NOLINT
04080 template<> struct ConwayPolynomial<541, 1> { using ZPZ = aerobus::zpz<541>; using type =
       POLYV<ZPZV<1>, ZPZV<539»; }; // NOLINT
04081 template<> struct ConwayPolynomial<541, 2> { using ZPZ = aerobus::zpz<541>; using type =
POLYV<ZPZV<1>, ZPZV<537>, ZPZV<2»; }; // NOLINT
04082 template<> struct ConwayPolynomial<541, 3> { using ZPZ = aerobus::zpz<541>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<539»; }; // NOLINT
04083 template<> struct ConwayPolynomial<541, 4> { using ZPZ = aerobus::zpz<541>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<333>, ZPZV<2»; }; // NOLINT
04084 template<> struct ConwayPolynomial<541, 5> { using ZPZ = aerobus::zpz<541>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<539»; }; // NOLINT
04085 template<> struct ConwayPolynomial<541, 6> { using ZPZ = aerobus::zpz<541>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<239>, ZPZV<320>, ZPZV<69>, ZPZV<2»; }; // NOLINT
04086 template<> struct ConwayPolynomial<541, 7> { using ZPZ = aerobus::zpz<541>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<539»; };
04087 template<> struct ConwayPolynomial<541, 8> { using ZPZ = aerobus::zpz<541>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<376>, ZPZV<108>, ZPZV<113>, ZPZV<2w; }; //
       NOLINT
04088 template<> struct ConwayPolynomial<541, 9> { using ZPZ = aerobus::zpz<541>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<16>, ZPZV<340>, ZPZV<318>, ZPZV<539»;
       }; // NOLINT
04089 template<> struct ConwayPolynomial<547, 1> { using ZPZ = aerobus::zpz<547>; using type =
       POLYV<ZPZV<1>, ZPZV<545»; }; // NOLINT
04090 template<> struct ConwayPolynomial<547, 2> { using ZPZ = aerobus::zpz<547>; using type =
POLYV<ZPZV<1>, ZPZV<543>, ZPZV<2»; }; // NOLINT
04091 template<> struct ConwayPolynomial<547, 3> { using ZPZ = aerobus::zpz<547>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<545»; }; // NOLINT
04092 template<> struct ConwayPolynomial<547, 4> { using ZPZ = aerobus::zpz<547>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<334>, ZPZV<2»; }; // NOLINT
04093 template<> struct ConwayPolynomial<547, 5> { using ZPZ = aerobus::zpz<547>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<545»; }; // NOLINT
04094 template<> struct ConwayPolynomial<547, 6> { using ZPZ = aerobus::zpz<547>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<334>, ZPZV<153>, ZPZV<423>, ZPZV<2»; }; // NOLINT
04095 template<> struct ConwayPolynomial<547, 7> { using ZPZ = aerobus::zpz<547>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<545»; }; // NOLINT
04096 template<> struct ConwayPolynomial<547, 8> { using ZPZ = aerobus::zpz<547>; using type :
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<368>, ZPZV<20>, ZPZV<180>, ZPZV<2»; }; //
04097 template<> struct ConwayPolynomial<547, 9> { using ZPZ = aerobus::zpz<547>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<238>, ZPZV<263>, ZPZV<545»;
       }; // NOLINT
04098 template<> struct ConwayPolynomial<557, 1> { using ZPZ = aerobus::zpz<557>; using type =
       POLYV<ZPZV<1>, ZPZV<555»; }; // NOLINT
04099 template<> struct ConwayPolynomial<557, 2> { using ZPZ = aerobus::zpz<557>; using type =
POLYV<ZPZV<1>, ZPZV<553>, ZPZV<2»; }; // NOLINT
04100 template<> struct ConwayPolynomial<557, 3> { using ZPZ = aerobus::zpz<557>; using type =
POLYY<ZPZV<1>, ZPZV<3>, ZPZV<3>, ZPZV<555»; // NOLINT

04101 template<> struct ConwayPolynomial<557, 4> { using ZPZ = aerobus::zpz<557>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<430>, ZPZV<2»; }; // NOLINT

04102 template<> struct ConwayPolynomial<557, 5> { using ZPZ = aerobus::zpz<557>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>; }; // NOLINT
04103 template<> struct ConwayPolynomial<557, 6> { using ZPZ = aerobus::zpz<557>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<202>, ZPZV<192>, ZPZV<253>, ZPZV<2»; }; // NOLINT 04104 template<> struct ConwayPolynomial<557, 7> { using ZPZ = aerobus::zpz<557>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<555»; }; // NOLINT
04105 template<> struct ConwayPolynomial<557, 8> { using ZPZ = aerobus::2pz<557>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<480>, ZPZV<384>, ZPZV<113>, ZPZV<2»; }; //
       NOT.TNT
04106 template<> struct ConwayPolynomial<557, 9> { using ZPZ = aerobus::zpz<557>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<1>, ZPZV<456>, ZPZV<434>, ZPZV<555»;
       }; // NOLINT
04107 template<> struct ConwayPolynomial<563, 1> { using ZPZ = aerobus::zpz<563>; using type =
       POLYV<ZPZV<1>, ZPZV<561»; }; // NOLINT
04108 template<> struct ConwayPolynomial<563, 2> { using ZPZ = aerobus::zpz<563>; using type =
       POLYV<ZPZV<1>, ZPZV<559>, ZPZV<2»; }; // NOLINT
04109 template<> struct ConwayPolynomial<563, 3> { using ZPZ = aerobus::zpz<563>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<561»; }; // NOLINT
04110 template<> struct ConwayPolynomial<563, 4> { using ZPZ = aerobus::zpz<563>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<20>, ZPZV<399>, ZPZV<2»; }; // NOLINT
04111 template<> struct ConwayPolynomial<563, 5> { using ZPZ = aerobus::zpz<563>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<65, ZPZV<561»; }; // NOLINT
04112 template<> struct ConwayPolynomial<563, 6> { using ZPZ = aerobus::zpz<563>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<12>, ZPZV<122, ZPZV<303>, ZPZV<246>, ZPZV<22*, }; // NOLINT
04113 template<> struct ConwayPolynomial<563, 7> { using ZPZ = aerobus::zpz<563>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5, ZPZV<5, ZPZV<561*; }; // NO
04114 template<> struct ConwayPolynomial<563, 8> { using ZPZ = aerobus::zpz<563>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<503>, ZPZV<176>, ZPZV<509>, ZPZV<2»; }; //
04115 template<> struct ConwayPolynomial<563, 9> { using ZPZ = aerobus::zpz<563>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<15>, ZPZV<19>, ZPZV<561»; };
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04116 template<> struct ConwayPolynomial<569, 1> { using ZPZ = aerobus::zpz<569>; using type =
       POLYV<ZPZV<1>, ZPZV<566»; }; // NOLINT
04117 template<> struct ConwayPolynomial<569, 2> { using ZPZ = aerobus::zpz<569>; using type =
POLYV<ZPZV<1>, ZPZV<568>, ZPZV<3»; }; // NOLINT
04118 template<> struct ConwayPolynomial<569, 3> { using ZPZ = aerobus::zpz<569>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<566»; }; // NOLINT
04119 template<> struct ConwayPolynomial<569, 4> { using ZPZ = aerobus::zpz<569>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<381>, ZPZV<3»; }; // NOLINT
04120 template<> struct ConwayPolynomial<569, 5> { using ZPZ = aerobus::zpz<569>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<566»; }; // NOLINT
04121 template<> struct ConwayPolynomial<569, 6> { using ZPZ = aerobus::zpz<569>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<50>, ZPZV<263>, ZPZV<480>, ZPZV<3»; }; // NOLINT 04122 template<> struct ConwayPolynomial<569, 7> { using ZPZ = aerobus::zpz<569>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<566»; };
04123 template<> struct ConwayPolynomial<569, 8> { using ZPZ = aerobus::zpz<569>; using type :
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<527>, ZPZV<173>, ZPZV<241>, ZPZV<241>, ZPZV<3»; }; //
       NOLINT
04124 template<> struct ConwayPolynomial<569, 9> { using ZPZ = aerobus::zpz<569>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<47>, ZPZV<478>, ZPZV<566>, ZPZV<566»;
       }; // NOLINT
04125 template<> struct ConwayPolynomial<571, 1> { using ZPZ = aerobus::zpz<571>; using type =
       POLYV<ZPZV<1>, ZPZV<568»; }; // NOLINT
04126 template<> struct ConwayPolynomial<571, 2> { using ZPZ = aerobus::zpz<571>; using type =
POLYV<ZPZV<1>, ZPZV<570>, ZPZV<3»; }; // NOLINT
04127 template<> struct ConwayPolynomial<571, 3> { using ZPZ = aerobus::zpz<571>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<568»; }; // NOLINT
04128 template<> struct ConwayPolynomial<571, 4> { using ZPZ = aerobus::zpz<571>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<402>, ZPZV<3»; }; // NOLINT

04129 template<> struct ConwayPolynomial<571, 5> { using ZPZ = aerobus::zpz<571>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<568»; }; // NOLINT
04130 template<> struct ConwayPolynomial<571, 6> { using ZPZ = aerobus::zpz<571>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<221>, ZPZV<295>, ZPZV<33>, ZPZV<3»; }; // NOLINT
04131 template<> struct ConwayPolynomial<571, 7> { using ZPZ = aerobus::zpz<571>; using type :
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<568»; };
04132 template<> struct ConwayPolynomial<571, 8> { using ZPZ = aerobus::zpz<571>; using type :
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<363>, ZPZV<119>, ZPZV<371>, ZPZV<3»; }; //
04133 template<> struct ConwayPolynomial<571, 9> { using ZPZ = aerobus::zpz<571>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<34>, ZPZV<545>, ZPZV<179>, ZPZV<568»;
       }; // NOLINT
04134 template<> struct ConwayPolynomial<577, 1> { using ZPZ = aerobus::zpz<577>; using type =
       POLYV<ZPZV<1>, ZPZV<572»; }; // NOLINT
04135 template<> struct ConwayPolynomial<577, 2> { using ZPZ = aerobus::zpz<577>; using type =
POLYV<ZPZV<1>, ZPZV<572, ZPZV<5»; }; // NOLINT
04136 template<> struct ConwayPolynomial<577, 3> { using ZPZ = aerobus::zpz<577>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<572»; }; // NOLINT
04137 template<> struct ConwayPolynomial<577, 4> { using ZPZ = aerobus::zpz<577>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<494>, ZPZV<5»; }; // NOLINT

04138 template<> struct ConwayPolynomial<577, 5> { using ZPZ = aerobus::zpz<577>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<572»; }; // NOLINT
04139 template<> struct ConwayPolynomial<577, 6> { using ZPZ = aerobus::zpz<577>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<450>, ZPZV<25>, ZPZV<283>, ZPZV<5»; }; // NOLINT
04140 template<> struct ConwayPolynomial<577, 7> { using ZPZ = aerobus::zpz<577>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<572»; };
04141 template<> struct ConwayPolynomial<577, 8> { using ZPZ = aerobus::zpz<577>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<450>, ZPZV<545>, ZPZV<545>, ZPZV<321>, ZPZV<5»; }; //
04142 template<> struct ConwayPolynomial<577, 9> { using ZPZ = aerobus::zpz<577>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<17>, ZPZV<576>, ZPZV<449>, ZPZV<572»;
       }; // NOLINT
04143 template<> struct ConwayPolynomial<587, 1> { using ZPZ = aerobus::zpz<587>; using type =
       POLYV<ZPZV<1>, ZPZV<585»; }; // NOLINT
04144 template<> struct ConwayPolynomial<587, 2> { using ZPZ = aerobus::zpz<587>; using type = POLYV<ZPZV<1>, ZPZV<583>, ZPZV<2»; }; // NOLINT
04145 template<> struct ConwayPolynomial<587, 3> { using ZPZ = aerobus::zpz<587>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<585»; }; // NOLINT

04146 template<> struct ConwayPolynomial<587, 4> { using ZPZ = aerobus::zpz<587>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<16>, ZPZV<444>, ZPZV<2»; }; // NOLINT

04147 template<> struct ConwayPolynomial<587, 5> { using ZPZ = aerobus::zpz<587>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<585»; }; // NOLINT
04148 template<> struct ConwayPolynomial<587, 6> { using ZPZ = aerobus::zpz<587>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<204>, ZPZV<121>, ZPZV<226, ZPZV<2»; }; // NOLINT 04149 template<> struct ConwayPolynomial<587, 7> { using ZPZ = aerobus::zpz<587>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<585»; };
04150 template<> struct ConwayPolynomial<587, 8> { using ZPZ = aerobus::2pz<587>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<492>, ZPZV<444>, ZPZV<91>, ZPZV<2»; };
04151 template<> struct ConwayPolynomial<587, 9> { using ZPZ = aerobus::zpz<587>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<333>, ZPZV<55>, ZPZV<585»;
       }; // NOLINT
04152 template<> struct ConwayPolynomial<593, 1> { using ZPZ = aerobus::zpz<593>; using type =
       POLYV<ZPZV<1>, ZPZV<590»; }; // NOLINT
04153 template<> struct ConwayPolynomial<593, 2> { using ZPZ = aerobus::zpz<593>; using type =
POLYV<ZPZV<1>, ZPZV<592>, ZPZV<3»; }; // NOLINT
04154 template<> struct ConwayPolynomial<593, 3> { using ZPZ = aerobus::zpz<593>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<590»; }; // NOLINT
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04155 template<> struct ConwayPolynomial<593, 4> { using ZPZ = aerobus::zpz<593>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<41>, ZPZV<3»; }; // NOLINT
04156 template<> struct ConwayPolynomial<593, 5> { using ZPZ = aerobus::zpz<593>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<590»; }; // NOLINT
04157 template<> struct ConwayPolynomial<593, 6> { using ZPZ = aerobus::zpz<593>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<345>, ZPZV<65>, ZPZV<478>, ZPZV<3»; }; // NOLINT
04158 template<> struct ConwayPolynomial<593, 7> { using ZPZ = aerobus::zpz<593>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<15>, ZPZV<590»; };
04159 template<> struct ConwayPolynomial<593, 8> { using ZPZ = aerobus::zpz<593>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<350>, ZPZV<291>, ZPZV<495>, ZPZV<3»; }; //
           NOLINT
04160 template<> struct ConwayPolynomial<593, 9> { using ZPZ = aerobus::zpz<593>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<590»; ZPZV<590»;
            }; // NOLINT
04161 template<> struct ConwayPolynomial<599, 1> { using ZPZ = aerobus::zpz<599>; using type =
           POLYV<ZPZV<1>, ZPZV<592»; }; // NOLINT
04162 template<> struct ConwayPolynomial<599, 2> { using ZPZ = aerobus::zpz<599>; using type =
POLYV<ZPZV<1>, ZPZV<598>, ZPZV<7»; }; // NOLINT

04163 template<> struct ConwayPolynomial<599, 3> { using ZPZ = aerobus::zpz<599>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<592»; }; // NOLINT
04164 template<> struct ConwayPolynomial<br/>
SP9, 4> { using ZPZ = aerobus::zpz<599>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<419>, ZPZV<7>; }; // NOLINT<br/>
04165 template<> struct ConwayPolynomial<br/>
SP9, 5> { using ZPZ = aerobus::zpz<599>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<592»; }; // NOLINT
04166 template<> struct ConwayPolynomial<599, 6> { using ZPZ = aerobus::zpz<599>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<515>, ZPZV<274>, ZPZV<586>, ZPZV<7»; }; // NOLINT
04167 template<> struct ConwayPolynomial<599, 7> { using ZPZ = aerobus::zpz<599>;
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<592»; };
04168 template<> struct ConwayPolynomial<599, 8> { using ZPZ = aerobus::zpz<599>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<40>, ZPZV<440>, ZPZV<37>, ZPZV<424, ZPZV<124>, ZPZV<12
           NOLINT
04169 template<> struct ConwayPolynomial<599, 9> { using ZPZ = aerobus::zpz<599>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<114>, ZPZV<98>, ZPZV<592»;
            }; // NOLINT
04170 template<> struct ConwayPolynomial<601, 1> { using ZPZ = aerobus::zpz<601>; using type =
           POLYV<ZPZV<1>, ZPZV<594»; }; // NOLINT
04171 template<> struct ConwayPolynomial<601, 2> { using ZPZ = aerobus::zpz<601>; using type =
           POLYV<ZPZV<1>, ZPZV<598>, ZPZV<7»; }; // NOLINT
04172 template<> struct ConwayPolynomial<601, 3> { using ZPZ = aerobus::zpz<601>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<594»; }; // NOLINT
04173 template<> struct ConwayPolynomial<601, 4> { using ZPZ = aerobus::zpz<601>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<347>, ZPZV<7»; }; // NOLINT
04174 template<> struct ConwayPolynomial<601, 5> { using ZPZ = aerobus::zpz<601>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<594»; }; // NOLINT
04175 template<> struct ConwayPolynomial<601, 6> { using ZPZ = aerobus::zpz<601>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<128>, ZPZV<440>, ZPZV<49>, ZPZV<7»; }; // NOLINT
04176 template<> struct ConwayPolynomial<601, 7> { using ZPZ = aerobus::zpz<601>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<594»; }; // NOLINT
04177 template<> struct ComwayPolynomial<601, 8> { using ZPZ = aerobus::zpz<601>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<550>, ZPZV<241>, ZPZV<490>, ZPZV<7»; }; //
04178 template<> struct ConwayPolynomial<601, 9> { using ZPZ = aerobus::zpz<601>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<487>, ZPZV<590>, ZPZV<594*;
            }; // NOLINT
04179 template<> struct ConwayPolynomial<607, 1> { using ZPZ = aerobus::zpz<607>; using type =
           POLYV<ZPZV<1>, ZPZV<604»; }; // NOLINT
04180 template<> struct ConwayPolynomial<607, 2> { using ZPZ = aerobus::zpz<607>; using type =
POLYV<ZPZV<1>, ZPZV<606>, ZPZV<3»; }; // NOLINT
04181 template<> struct ConwayPolynomial<607, 3> { using ZPZ = aerobus::zpz<607>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<604»; }; // NOLINT

04182 template<> struct ConwayPolynomial<607, 4> { using ZPZ = aerobus::zpz<607>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<449>, ZPZV<3»; }; // NOLINT

04183 template<> struct ConwayPolynomial<607, 5> { using ZPZ = aerobus::zpz<607>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<604»; }; // NOLINT
04184 template<> struct ConwayPolynomial<607, 6> { using ZPZ = aerobus::zpz<607>; using type =
            \texttt{POLYV} < \texttt{ZPZV} < 1>, \ \texttt{ZPZV} < 0>, \ \texttt{ZPZV} < 0>, \ \texttt{ZPZV} < 10>, \ \texttt{ZPZV} < 45>, \ \texttt{ZPZV} < 478>, \ \texttt{ZPZV} < 3»; \ \}; \ \ // \ \ \texttt{NOLINT} 
04185 template<> struct ConwayPolynomial<607, 7> { using ZPZ = aerobus::zpz<607>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                                                                                                                                                                           // NOLINT
04186 template<> struct ConwayPolynomial<607, 8> { using ZPZ = aerobus::zpz<607>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<468>, ZPZV<35>, ZPZV<449>, ZPZV<3»; };
04187 template<> struct ConwayPolynomial<607, 9> { using ZPZ = aerobus::zpz<607>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<444>, ZPZV<129>, ZPZV<604»;
            }; // NOLINT
04188 template<> struct ConwayPolynomial<613, 1> { using ZPZ = aerobus::zpz<613>; using type =
           POLYV<ZPZV<1>, ZPZV<611»; }; // NOLINT
04189 template<> struct ConwayPolynomial<613, 2> { using ZPZ = aerobus::zpz<613>; using type =
           POLYV<ZPZV<1>, ZPZV<609>, ZPZV<2»; }; // NOLINT
04190 template<> struct ConwayPolynomial<613, 3> { using ZPZ = aerobus::zpz<613>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<611»; }; // NOLINT
04191 template<> struct ConwayPolynomial<613, 4> { using ZPZ = aerobus::zpz<613>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<333>, ZPZV<2»; }; // NOLINT
04192 template<> struct ConwayPolynomial<613, 5> { using ZPZ = aerobus::zpz<613>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<32>, ZPZV<611»; }; // NOLINT
04193 template<> struct ConwayPolynomial<613, 6> { using ZPZ = aerobus::zpz<613>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<609>, ZPZV<595>, ZPZV<601>, ZPZV<2»; }; // NOLINT 04194 template<> struct ConwayPolynomial<613, 7> { using ZPZ = aerobus::zpz<613>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<61); };
04195 template<> struct ConwayPolynomial<613, 8> { using ZPZ = aerobus::zpz<613>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<489>, ZPZV<57>, ZPZV<539>, ZPZV<2»; }; //
         NOLINT
04196 template<> struct ConwayPolynomial<613, 9> { using ZPZ = aerobus::zpz<613>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<513>, ZPZV<5163>, ZPZV<5164, ZPZV<5164
04197 template<> struct ConwayPolynomial<617, 1> { using ZPZ = aerobus::zpz<617>; using type =
         POLYV<ZPZV<1>, ZPZV<614»; }; // NOLINT
04198 template<> struct ConwayPolynomial<617, 2> { using ZPZ = aerobus::zpz<617>; using type =
POLYY<ZPZY<1>, ZPZY<612>, ZPZY<3»; }; // NOLINT
04199 template<> struct ConwayPolynomial<617, 3> { using ZPZ = aerobus::zpz<617>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<614»; }; // NOLINT
04200 template<> struct ConwayPolynomial<617, 4> { using ZPZ = aerobus::zpz<617>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<503>, ZPZV<3»; }; // NOLINT
04201 template<> struct ConwayPolynomial<617, 5> { using ZPZ = aerobus::zpz<617>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<614»; }; // NOLINT
04202 template<> struct ConwayPolynomial<617, 6> { using ZPZ = aerobus::zpz<617>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<318>, ZPZV<595>, ZPZV<310>, ZPZV<3»; }; // NOLINT
04203 template<> struct ConwayPolynomial<617, 7> { using ZPZ = aerobus::zpz<617>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<614»; };
04204 template<> struct ConwayPolynomial<617, 8> { using ZPZ = aerobus::zpz<617>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<519>, ZPZV<501>, ZPZV<155>, ZPZV<13»; }; //
         NOLINT
04205 template<> struct ConwayPolynomial<617, 9> { using ZPZ = aerobus::zpz<617>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<388>, ZPZV<543>, ZPZV<614»;
         }; // NOLINT
04206 template<> struct ConwayPolynomial<619, 1> { using ZPZ = aerobus::zpz<619>; using type =
         POLYV<ZPZV<1>, ZPZV<617»; }; // NOLINT
04207 template<> struct ConwayPolynomial<619, 2> { using ZPZ = aerobus::zpz<619>; using type =
POLYV<ZPZV<1>, ZPZV<618>, ZPZV<2»; }; // NOLINT

04208 template<> struct ConwayPolynomial<619, 3> { using ZPZ = aerobus::zpz<619>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<617»; }; // NOLINT
04209 template<> struct ConwayPolynomial<619, 4> { using ZPZ = aerobus::zpz<619>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<492>, ZPZV<2»; }; // NOLINT
04210 template<> struct ConwayPolynomial<619, 5> { using ZPZ = aerobus::zpz<619>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<6179; // NOLINT
04211 template<> struct ConwayPolynomial<619, 6> { using ZPZ = aerobus::zpz<619>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<238>, ZPZV<468>, ZPZV<347>, ZPZV<2»; }; // NOLINT
04212 template<> struct ConwayPolynomial<619, 7> { using ZPZ = aerobus::zpz<619>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<617»; };
04213 template<> struct ConwayPolynomial<619, 8> { using ZPZ = aerobus::zpz<619>; using type =
         POLYV<7P7V<1>. 7P7V<0>. 7P7V<0>. 7P7V<10>. 7P7V<416>. 7P7V<383>. 7P7V<225>. 7P7V<2*: }: //
         NOLINT
04214 template<> struct ConwayPolynomial<619, 9> { using ZPZ = aerobus::zpz<619>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<579>, ZPZV<510>, ZPZV<510>,
         }; // NOLINT
04215 template<> struct ConwayPolynomial<631, 1> { using ZPZ = aerobus::zpz<631>; using type =
         POLYV<ZPZV<1>, ZPZV<628»; }; // NOLINT
04216 template<> struct ConwayPolynomial<631, 2> { using ZPZ = aerobus::zpz<631>; using type =
         POLYV<ZPZV<1>, ZPZV<629>, ZPZV<3»; }; // NOLINT
04217 template<> struct ConwayPolynomial<631, 3> { using ZPZ = aerobus::zpz<631>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<628»; }; // NOLINT
04218 template<> struct ConwayPolynomial<631, 4> { using ZPZ = aerobus::zpz<631>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<376>, ZPZV<3»; }; // NOLINT
04219 template<> struct ConwayPolynomial<631, 5> { using ZPZ = aerobus::zpz<631>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<628»; }; // NOLINT
04220 template<> struct ConwayPolynomial<631, 6> { using ZPZ = aerobus::zpz<631>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<516>, ZPZV<541>, ZPZV<106>, ZPZV<3»; }; // NOLINT
04221 template<> struct ConwayPolynomial<631, 7> { using ZPZ = aerobus::zpz<631>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<628»; };
04222 template<> struct ConwayPolynomial<631, 8> { using ZPZ = aerobus::zpz<631>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<379>, ZPZV<516>, ZPZV<187>, ZPZV<3»; }; //
         NOLINT
04223 template<> struct ConwayPolynomial<631, 9> { using ZPZ = aerobus::zpz<631>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<296>, ZPZV<413>, ZPZV<628»;
          }; // NOLINT
04224 template<> struct ConwavPolynomial<641, 1> { using ZPZ = aerobus::zpz<641>; using type =
         POLYV<ZPZV<1>, ZPZV<638»; }; // NOLINT
04225 template<> struct ConwayPolynomial<641, 2> { using ZPZ = aerobus::zpz<641>; using type =
         POLYV<ZPZV<1>, ZPZV<635>, ZPZV<3»; }; // NOLINT
04226 template<> struct ConwayPolynomial<641, 3> { using ZPZ = aerobus::zpz<641>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<638»; }; // NOLINT
04227 template<> struct ConwayPolynomial<641, 4> { using ZPZ = aerobus::zpz<641>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<629>, ZPZV<3»; }; // NOLINT
04228 template<> struct ConwayPolynomial<641, 5> { using ZPZ = aerobus::zpz<641>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<638»; }; // NOLINT
04229 template<> struct ConwayPolynomial<641, 6> { using ZPZ = aerobus::zpz<641>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<105>, ZPZV<557>, ZPZV<294>, ZPZV<3»; }; // NOLINT 04230 template<> struct ConwayPolynomial<641, 7> { using ZPZ = aerobus::zpz<641>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<638»; }; // NOLINT
04231 template<> struct ConwayPolynomial<641, 8> { using ZPZ = aerobus::zpz<641>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<356>, ZPZV<392>, ZPZV<332>, ZPZV<33»; }; //
         NOLINT
04232 template<> struct ConwayPolynomial<641, 9> { using ZPZ = aerobus::zpz<641>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<66>, ZPZV<641>, ZPZV<638»;
         }; // NOLINT
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04233 template<> struct ConwayPolynomial<643, 1> { using ZPZ = aerobus::zpz<643>; using type =
       POLYV<ZPZV<1>, ZPZV<632»; }; // NOLINT
04234 template<> struct ConwayPolynomial<643, 2> { using ZPZ = aerobus::zpz<643>; using type =
POLYV<ZPZV<1>, ZPZV<641>, ZPZV<11»; }; // NOLINT

04235 template<> struct ConwayPolynomial<643, 3> { using ZPZ = aerobus::zpz<643>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<632»; }; // NOLINT
04236 template<> struct ConwayPolynomial<643, 4> { using ZPZ = aerobus::zpz<643>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<600>, ZPZV<11»; }; // NOLINT
04237 template<> struct ConwayPolynomial<643, 5> { using ZPZ = aerobus::zpz<643>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<632»; }; // NOLINT
04238 template<> struct ConwayPolynomial<643, 6> { using ZPZ = aerobus::zpz<643>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<345>, ZPZV<412>, ZPZV<293>, ZPZV<11»; }; // NOLINT
04239 template<> struct ConwayPolynomial<643, 7> { using ZPZ = aerobus::zpz<643>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<632»; };
04240 template<> struct ConwayPolynomial<643, 8> { using ZPZ = aerobus::zpz<643>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<631>, ZPZV<573>, ZPZV<569>, ZPZV<11»; }; //
       NOLTNT
04241 template<> struct ConwayPolynomial<643, 9> { using ZPZ = aerobus::zpz<643>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<59, ZPZV<591>, ZPZV<475>, ZPZV<632»;
04242 template<> struct ConwayPolynomial<647, 1> { using ZPZ = aerobus::zpz<647>; using type =
      POLYV<ZPZV<1>, ZPZV<642»; }; // NOLINT
04243 template<> struct ConwayPolynomial<647, 2> { using ZPZ = aerobus::zpz<647>; using type = POLYV<ZPZV<1>, ZPZV<645>, ZPZV<5»; }; // NOLINT
04244 template<> struct ConwayPolynomial<647, 3> { using ZPZ = aerobus::zpz<647>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<642»; }; // NOLINT
04245 template<> struct ConwayPolynomial<647, 4> { using ZPZ = aerobus::zpz<647>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<643>, ZPZV<5»; }; // NOLINT
04246 template<> struct ConwayPolynomial<647, 5> { using ZPZ = aerobus::zpz<647>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<642»; }; // NOLINT

04247 template<> struct ConwayPolynomial<647, 6> { using ZPZ = aerobus::zpz<647>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<308>, ZPZV<385>, ZPZV<642>, ZPZV<5»; };
04248 template<> struct ConwayPolynomial<647, 7> { using ZPZ = aerobus::zpz<647>; using type
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<642»; };
                                                                                                      // NOLINT
04249 template<> struct ConwayPolynomial<647, 8> { using ZPZ = aerobus::zpz<647>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<603>, ZPZV<259>, ZPZV<271>, ZPZV<5»; }; //
       NOLINT
04250 template<> struct ConwayPolynomial<647, 9> { using ZPZ = aerobus::zpz<647>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<561>, ZPZV<123>, ZPZV<642»;
       }; // NOLINT
04251 template<> struct ConwayPolynomial<653, 1> { using ZPZ = aerobus::zpz<653>; using type =
      POLYV<ZPZV<1>, ZPZV<651»; }; // NOLINT
04252 template<> struct ConwayPolynomial<653, 2> { using ZPZ = aerobus::zpz<653>; using type =
POLYV<ZPZV<1>, ZPZV<649>, ZPZV<2»; }; // NOLINT
04253 template<> struct ConwayPolynomial<653, 3> { using ZPZ = aerobus::zpz<653>; using type =
                                                            // NOLINT
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<651»; };
04254 template<> struct ConwayPolynomial<653, 4> { using ZPZ = aerobus::zpz<653>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<596>, ZPZV<2»; }; // NOLINT
04255 template<> struct ConwayPolynomial<653, 5> { using ZPZ = aerobus::zpz<653>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<651»; }; // NOLINT
04256 template<> struct ConwayPolynomial<653, 6> { using ZPZ = aerobus::zpz<653>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<45>, ZPZV<220>, ZPZV<242>, ZPZV<24>; }; // NOLINT
04257 template<> struct ConwayPolynomial<653, 7> { using ZPZ = aerobus::zpz<653>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<651»; };
                                                                                                      // NOLINT
04258 template<> struct ConwayPolynomial<653, 8> { using ZPZ = aerobus::zpz<653>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<385>, ZPZV<18>, ZPZV<296>, ZPZV<2»; }; //
04259 template<> struct ConwayPolynomial<653, 9> { using ZPZ = aerobus::zpz<653>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<365>, ZPZV<6651»;
       }; // NOLINT
04260 template<> struct ConwayPolynomial<659, 1> { using ZPZ = aerobus::zpz<659>; using type =
      POLYV<ZPZV<1>, ZPZV<657»; }; // NOLINT
04261 template<> struct ConwayPolynomial<659, 2> { using ZPZ = aerobus::zpz<659>; using type =
                                                  // NOLINT
       POLYV<ZPZV<1>, ZPZV<655>, ZPZV<2»; };
04262 template<> struct ConwayPolynomial<659, 3> { using ZPZ = aerobus::zpz<659>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<657»; }; // NOLINT
04263 template<> struct ConwayPolynomial<659, 4> { using ZPZ = aerobus::zpz<659>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<351>, ZPZV<2»; }; // NOLINT
04264 template<> struct ConwayPolynomial<659, 5> { using ZPZ = aerobus::zpz<659>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<657»; }; // NOLINT
04265 template<> struct ConwayPolynomial<659, 6> { using ZPZ = aerobus::zpz<659>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<371>, ZPZV<105>, ZPZV<223>, ZPZV<2»; }; // NOLINT
04266 template<> struct ConwayPolynomial<659, 7> { using ZPZ = aerobus::zpz<659>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<657»; };
04267 template<> struct ConwayPolynomial<659, 8> { using ZPZ = aerobus::zpz<659>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<358>, ZPZV<246>, ZPZV<90>, ZPZV<2»; }; //
       NOLINT
04268 template<> struct ConwayPolynomial<659, 9> { using ZPZ = aerobus::zpz<659>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<592, ZPZV<592, ZPZV<46>, ZPZV<657»;
       ): // NOLINT
04269 template<> struct ConwayPolynomial<661, 1> { using ZPZ = aerobus::zpz<661>; using type =
       POLYV<ZPZV<1>, ZPZV<659»; }; // NOLINT
04270 template<> struct ConwayPolynomial<661, 2> { using ZPZ = aerobus::zpz<661>; using type =
      POLYV<ZPZV<1>, ZPZV<660>, ZPZV<2»; }; // NOLINT
04271 template<> struct ConwayPolynomial<661, 3> { using ZPZ = aerobus::zpz<661>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<659»; }; // NOLINT
04272 template<> struct ConwayPolynomial<661, 4> { using ZPZ = aerobus::zpz<661>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<616>, ZPZV<2»; }; // NOLINT
04273 template<> struct ConwayPolynomial<661, 5> { using ZPZ = aerobus::zpz<661>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<19>, ZPZV<659»; }; // NOLINT
04274 template<> struct ConwayPolynomial<661, 6> { using ZPZ = aerobus::zpz<661>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<551>, ZPZV<456>, ZPZV<382>, ZPZV<2»; }; // NOLINT 04275 template<> struct ConwayPolynomial<661, 7> { using ZPZ = aerobus::zpz<661>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<659»; };
04276 template<> struct ConwayPolynomial<661, 8> { using ZPZ = aerobus::zpz<661>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<612>, ZPZV<285>, ZPZV<72>, ZPZV<2»; }; //
         NOLINT
04277 template<> struct ConwayPolynomial<661, 9> { using ZPZ = aerobus::zpz<661>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<18>, ZPZV<389>, ZPZV<389>, ZPZV<659»;
         }: // NOLINT
04278 template<> struct ConwayPolynomial<673, 1> { using ZPZ = aerobus::zpz<673>; using type =
         POLYV<ZPZV<1>, ZPZV<668»; }; // NOLINT
04279 template<> struct ConwayPolynomial<673, 2> { using ZPZ = aerobus::zpz<673>; using type =
POLYV<ZPZV<1>, ZPZV<672>, ZPZV<5»; }; // NOLINT
04280 template<> struct ConwayPolynomial<673, 3> { using ZPZ = aerobus::zpz<673>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<668»; }; // NOLINT
04281 template<> struct ConwayPolynomial<673, 4> { using ZPZ = aerobus::zpz<673>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<416>, ZPZV<5»; }; // NOLINT
04282 template<> struct ConwayPolynomial<673, 5> { using ZPZ = aerobus::zpz<673>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<68*; }; // NOLINT
04283 template<> struct ConwayPolynomial<673, 6> { using ZPZ = aerobus::zpz<673>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<524>, ZPZV<248>, ZPZV<35>, ZPZV<35»; }; // NOLINT
04284 template<> struct ConwayPolynomial<673, 7> { using ZPZ = aerobus::zpz<673>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<66»; };
04285 template<> struct ConwayPolynomial<673, 8> { using ZPZ = aerobus::zpz<673>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<66>, ZPZV<669>, ZPZV<587>, ZPZV<302>, ZPZV<5»; }; //
         NOLINT
04286 template<> struct ConwayPolynomial<673, 9> { using ZPZ = aerobus::zpz<673>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<347>, ZPZV<553>, ZPZV<668»;
04287 template<> struct ConwayPolynomial<677, 1> { using ZPZ = aerobus::zpz<677>; using type =
         POLYV<ZPZV<1>, ZPZV<675»; }; // NOLINT
04288 template<> struct ConwayPolynomial<677, 2> { using ZPZ = aerobus::zpz<677>; using type =
POLYV<ZPZV<1>, ZPZV<672>, ZPZV<2»; }; // NOLINT
04289 template<> struct ConwayPolynomial<677, 3> { using ZPZ = aerobus::zpz<677>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<675»; }; // NOLINT
04290 template<> struct ConwayPolynomial<br/>677, 4> { using ZPZ = aerobus::zpz<677>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<631>, ZPZV<2»; }; // NOLINT<br/>04291 template<> struct ConwayPolynomial<br/>677, 5> { using ZPZ = aerobus::zpz<677>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<675»; }; // NOLINT
04292 template<> struct ConwayPolynomial<677, 6> { using ZPZ = aerobus::zpz<677>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<446>, ZPZV<632>, ZPZV<50>, ZPZV<2»; }; // NOLINT
04293 template<> struct ConwayPolynomial<677, 7> { using ZPZ = aerobus::zpz<677>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<10>, ZPZV<675»; };
04294 template<> struct ConwayPolynomial<677, 8> { using ZPZ = aerobus::zpz<677>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<361>, ZPZV<619>, ZPZV<152>, ZPZV<2»; }; //
         NOLINT
04295 template<> struct ConwayPolynomial<677, 9> { using ZPZ = aerobus::zpz<677>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<504>, ZPZV<4040, ZPZV<675»;
          }; // NOLINT
04296 template<> struct ConwayPolynomial<683, 1> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<678»; }; // NOLINT
04297 template<> struct ConwayPolynomial<683, 2> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<682>, ZPZV<5»; }; // NOLINT
04298 template<> struct ConwayPolynomial<683, 3> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<678»; }; // NOLINT
04299 template<> struct ConwayPolynomial<683, 4> { using ZPZ = aerobus::zpz<683>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<45>, ZPZV<5>, ZPZV<5>; // NOLINT

04300 template<> struct ConwayPolynomial<683, 5> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<678»; }; // NOLINT
04301 template<> struct ConwayPolynomial<683, 6> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<644>, ZPZV<109>, ZPZV<434>, ZPZV<5»; }; // NOLINT
04302 template<> struct ConwayPolynomial<683, 7> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<678»; }; // NOLINT
04303 template<> struct ConwayPolynomial<683, 8> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<383>, ZPZV<184>, ZPZV<65>, ZPZV<65»; }; //
         NOLINT
04304 template<> struct ConwayPolynomial<683, 9> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
          }; // NOLINT
04305 template<> struct ConwayPolynomial<691, 1> { using ZPZ = aerobus::zpz<691>; using type =
         POLYV<ZPZV<1>, ZPZV<688»; }; // NOLINT
04306 template<> struct ConwayPolynomial<691, 2> { using ZPZ = aerobus::zpz<691>; using type =
         POLYV<ZPZV<1>, ZPZV<686>, ZPZV<3»; }; // NOLINT
04307 template<> struct ConwayPolynomial<691, 3> { using ZPZ = aerobus::zpz<691>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<688»; }; // NOLINT
04308 template<> struct ConwayPolynomial<691, 4> { using ZPZ = aerobus::zpz<691>; using type =
POLYV<ZPZV<1>, ZPZV<3>, ZPZV<3>, ZPZV<632>, ZPZV<3»; }; // NOLINT
04309 template<> struct ConwayPolynomial<691, 5> { using ZPZ = aerobus::zpz<691>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<688»; }; // NOLINT
04310 template<> struct ConwayPolynomial<691, 6> { using ZPZ = aerobus::zpz<691>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<579>, ZPZV<408>, ZPZV<262>, ZPZV<3»; }; // NOLINT 04311 template<> struct ConwayPolynomial<691, 7> { using ZPZ = aerobus::zpz<691>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<688»; }; // NO
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04312 template<> struct ConwayPolynomial<691, 8> { using ZPZ = aerobus::zpz<691>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<356>, ZPZV<425>, ZPZV<321>, ZPZV<32); //
       NOLTNT
04313 template<> struct ConwayPolynomial<691, 9> { using ZPZ = aerobus::zpz<691>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<556>, ZPZV<443>, ZPZV<688»;
       }; // NOLINT
04314 template<> struct ConwayPolynomial<701, 1> { using ZPZ = aerobus::zpz<701>; using type =
       POLYV<ZPZV<1>, ZPZV<699»; }; // NOLINT
04315 template<> struct ConwayPolynomial<701, 2> { using ZPZ = aerobus::zpz<701>; using type =
POLYV<ZPZV<1>, ZPZV<697>, ZPZV<2»; }; // NOLINT
04316 template<> struct ConwayPolynomial<701, 3> { using ZPZ = aerobus::zpz<701>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<699»; }; // NOLINT
04317 template<> struct ConwayPolynomial<701, 4> { using ZPZ = aerobus::zpz<701>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<379>, ZPZV<2»; }; // NOLINT
04318 template<> struct ConwayPolynomial<701, 5> { using ZPZ = aerobus::zpz<701>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<699»; }; // NOLINT
04319 template<> struct ConwayPolynomial<701, 6> { using ZPZ = aerobus::zpz<701>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<571>, ZPZV<571>, ZPZV<255>, ZPZV<285>, ZPZV<28; }; // NOLINT 04320 template<> struct ConwayPolynomial<701, 7> { using ZPZ = aerobus::zpz<701>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<699»; };
04321 template<> struct ConwayPolynomial<701, 8> { using ZPZ = aerobus::zpz<701>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<619>, ZPZV<206>, ZPZV<593>, ZPZV<593 / //
       NOLINT
04322 template<> struct ConwayPolynomial<701, 9> { using ZPZ = aerobus::zpz<701>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5, ZPZV<1>, ZPZV<459>, ZPZV<373>, ZPZV<699»;
       }; // NOLINT
04323 template<> struct ConwayPolynomial<709, 1> { using ZPZ = aerobus::zpz<709>; using type =
       POLYV<ZPZV<1>, ZPZV<707»; }; // NOLINT
04324 template<> struct ConwayPolynomial<709, 2> { using ZPZ = aerobus::zpz<709>; using type =
POLYV<ZPZV<1>, ZPZV<705>, ZPZV<2»; }; // NOLINT

04325 template<> struct ConwayPolynomial<709, 3> { using ZPZ = aerobus::zpz<709>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<707»; }; // NOLINT
04326 template<> struct ConwayPolynomial<709, 4> { using ZPZ = aerobus::zpz<709>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<384>, ZPZV<2»; }; // NOLINT
04327 template<> struct ConwayPolynomial<709, 5> { using ZPZ = aerobus::zpz<709>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<70>, ZPZV<707»; }; // NoLINT
04328 template<> struct ConwayPolynomial<709, 6> { using ZPZ = aerobus::zpz<709>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<669>, ZPZV<514>, ZPZV<295>, ZPZV<2»; }; // NOLINT
04329 template<> struct ConwayPolynomial<709, 7> { using ZPZ = aerobus::zpz<709>;
                                                                                             using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<707»; };
04330 template<> struct ConwayPolynomial<709, 8> { using ZPZ = aerobus::zpz<709>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<689>, ZPZV<233>, ZPZV<79>, ZPZV<2»; }; //
       NOLINT
04331 template<> struct ConwayPolynomial<709, 9> { using ZPZ = aerobus::zpz<709>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<257>, ZPZV<2171>, ZPZV<707»;
       }; // NOLINT
04332 template<> struct ConwayPolynomial<719, 1> { using ZPZ = aerobus::zpz<719>; using type =
      POLYV<ZPZV<1>, ZPZV<708»; }; // NOLINT
04333 template<> struct ConwayPolynomial<719, 2> { using ZPZ = aerobus::zpz<719>; using type =
POLYY<ZPZV<1>, ZPZV<715>, ZPZV<11»; }; // NOLINT

04334 template<> struct ConwayPolynomial<719, 3> { using ZPZ = aerobus::zpz<719>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<708»; }; // NOLINT
04335 template<> struct ConwayPolynomial<719, 4> { using ZPZ = aerobus::zpz<719>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<602>, ZPZV<11»; }; // NOLINT
04336 template<> struct ConwayPolynomial<719, 5> { using ZPZ = aerobus::zpz<719>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<708; }; // NOLINT
04337 template<> struct ConwayPolynomial<719, 6> { using ZPZ = aerobus::zpz<719>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<533>, ZPZV<591>, ZPZV<182>, ZPZV<11»; }; // NOLINT
04338 template<> struct ConwayPolynomial<719, 7> { using ZPZ = aerobus::zpz<719>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<708»; };
04339 template<> struct ConwayPolynomial<719, 8> { using ZPZ = aerobus::zpz<719>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<714>, ZPZV<362>, ZPZV<244>, ZPZV<11»; }; //
       NOLINT
04340 template<> struct ConwayPolynomial<719, 9> { using ZPZ = aerobus::zpz<719>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<38>, ZPZV<288>, ZPZV<560>, ZPZV<708»;
       }; // NOLINT
04341 template<> struct ConwayPolynomial<727, 1> { using ZPZ = aerobus::zpz<727>; using type =
       POLYV<ZPZV<1>, ZPZV<722»; }; // NOLINT
04342 template<> struct ConwayPolynomial<727, 2> { using ZPZ = aerobus::zpz<727>; using type =
POLYV<ZPZV<1>, ZPZV<725>, ZPZV<5»; }; // NOLINT
04343 template<> struct ConwayPolynomial<727, 3> { using ZPZ = aerobus::zpz<727>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<722»; }; // NOLINT
04344 template<> struct ConwayPolynomial<727, 4> { using ZPZ = aerobus::zpz<727>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<723>, ZPZV<5»; }; // NOLINT
04345 template<> struct ConwayPolynomial<727, 5> { using ZPZ = aerobus::zpz<727>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<722»; }; // NOLINT
04346 template<> struct ConwayPolynomial<727, 6> { using ZPZ = aerobus::zpz<727>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<86>, ZPZV<397>, ZPZV<672>, ZPZV<5»; }; // NOLINT 04347 template<> struct ConwayPolynomial<727, 7> { using ZPZ = aerobus::zpz<727>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<17>, ZPZV<722»; }; // NOLINT
04348 template<> struct ConwayPolynomial<727, 8> { using ZPZ = aerobus::zpz<727>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<639>, ZPZV<671>, ZPZV<368>, ZPZV<5»; }; //
04349 template<> struct ConwayPolynomial<727, 9> { using ZPZ = aerobus::zpz<727>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<573>, ZPZV<502>, ZPZV<722»;
       }; // NOLINT
04350 template<> struct ConwayPolynomial<733, 1> { using ZPZ = aerobus::zpz<733>; using type =
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POLYV<ZPZV<1>, ZPZV<727»; }; // NOLINT
04351 template<> struct ConwayPolynomial<733, 2> { using ZPZ = aerobus::zpz<733>; using type =
       POLYV<ZPZV<1>, ZPZV<732>, ZPZV<6»; }; // NOLINT
04352 template<> struct ConwayPolynomial<733, 3> { using ZPZ = aerobus::zpz<733>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<727»; }; // NOLINT
04353 template<> struct ConwayPolynomial<733, 4> { using ZPZ = aerobus::zpz<733>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<539>, ZPZV<6»; }; // NOLINT
04354 template<> struct ConwayPolynomial<733, 5> { using ZPZ = aerobus::zpz<733>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<727»; }; // NOLINT
04355 template<> struct ConwayPolynomial<733, 6> { using ZPZ = aerobus::zpz<733>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<174>, ZPZV<549>, ZPZV<151>, ZPZV<6»; }; // NOLINT
04356 template<> struct ConwayPolynomial<733, 7> { using ZPZ = aerobus::zpz<733>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<727»; };
04357 template<> struct ConwayPolynomial<733, 8> { using ZPZ = aerobus::2pz<733>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<532>, ZPZV<610>, ZPZV<142>, ZPZV<6»; }; //
04358 template<> struct ConwayPolynomial<733, 9> { using ZPZ = aerobus::zpz<733>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<337>, ZPZV<6>, ZPZV<727»; };
04359 template<> struct ConwayPolynomial<739, 1> { using ZPZ = aerobus::zpz<739>; using type =
       POLYV<ZPZV<1>, ZPZV<736»; }; // NOLINT
04360 template<> struct ConwayPolynomial<739, 2> { using ZPZ = aerobus::zpz<739>; using type =
POLYV<ZPZV<1>, ZPZV<734>, ZPZV<3»; }; // NOLINT
04361 template<> struct ConwayPolynomial<739, 3> { using ZPZ = aerobus::zpz<739>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<736»; }; // NOLINT
04362 template<> struct ConwayPolynomial<739, 4> { using ZPZ = aerobus::zpz<739>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<678>, ZPZV<3»; }; // NOLINT
04363 template<> struct ConwayPolynomial<739, 5> { using ZPZ = aerobus::zpz<739>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<736»; }; // NOLINT
04364 template<> struct ConwayPolynomial<739, 6> { using ZPZ = aerobus::zpz<739>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<42>, ZPZV<447>, ZPZV<625>, ZPZV<3»; }; // NOLINT
04365 template<> struct ConwayPolynomial<739, 7> { using ZPZ = aerobus::zpz<739>;
                                                                                                      using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<44>, ZPZV<736»; };
04366 template<> struct ConwayPolynomial<739, 8> { using ZPZ = aerobus::zpz<739>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<401>, ZPZV<169>, ZPZV<25>, ZPZV<3»; }; //
       NOLINT
04367 template<> struct ConwayPolynomial<739, 9> { using ZPZ = aerobus::zpz<739>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<616>, ZPZV<81>, ZPZV<81
        }; // NOLINT
04368 template<> struct ConwayPolynomial<743, 1> { using ZPZ = aerobus::zpz<743>; using type =
       POLYV<ZPZV<1>, ZPZV<738»; }; // NOLINT
04369 template<> struct ConwayPolynomial<743, 2> { using ZPZ = aerobus::zpz<743>; using type =
POLYV<ZPZV<1>, ZPZV<742>, ZPZV<5»; }; // NOLINT
04370 template<> struct ConwayPolynomial<743, 3> { using ZPZ = aerobus::zpz<743>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<738»; }; // NOLINT
04371 template<> struct ConwayPolynomial<743, 4> { using ZPZ = aerobus::zpz<743>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<425>, ZPZV<5»; }; // NOLINT
04372 template<> struct ConwayPolynomial<743, 5> { using ZPZ = aerobus::zpz<743>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<738»; }; // NOLINT
04373 template<> struct ConwayPolynomial<743, 6> { using ZPZ = aerobus::zpz<743>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<236>, ZPZV<471>, ZPZV<88>, ZPZV<5»; }; // NOLINT
04374 template<> struct ConwayPolynomial<743, 7> { using ZPZ = aerobus::zpz<743>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<738»; };
04375 template<> struct ConwayPolynomial<743, 8> { using ZPZ = aerobus::zpz<743>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<55), ZPZV<279>, ZPZV<588>, ZPZV<5»; }; //
       NOLINT
04376 template<> struct ConwayPolynomial<743, 9> { using ZPZ = aerobus::zpz<743>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<327>, ZPZV<676>, ZPZV<738»;
        }; // NOLINT
04377 template<> struct ConwayPolynomial<751, 1> { using ZPZ = aerobus::zpz<751>; using type =
       POLYV<ZPZV<1>, ZPZV<748»; }; // NOLINT
04378 template<> struct ConwayPolynomial<751, 2> { using ZPZ = aerobus::zpz<751>; using type =
       POLYV<ZPZV<1>, ZPZV<749>, ZPZV<3»; }; // NOLINT
04379 template<> struct ConwayPolynomial<751, 3> { using ZPZ = aerobus::zpz<751>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<748»; }; // NOLINT
04380 template<> struct ConwayPolynomial<751, 4> { using ZPZ = aerobus::zpz<751>; using type =
POLYV<ZPZV<1>, ZPZV<3>, ZPZV<3>, ZPZV<525>, ZPZV<3»; }; // NOLINT
04381 template<> struct ConwayPolynomial<751, 5> { using ZPZ = aerobus::zpz<751>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<748»; }; // NOLINT
04382 template<> struct ConwayPolynomial<751, 6> { using ZPZ = aerobus::zpz<751>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<298>, ZPZV<633>, ZPZV<539>, ZPZV<3»; }; // NOLINT
04383 template<> struct ConwayPolynomial<751, 7> { using ZPZ = aerobus::zpz<751>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<748»; };
04384 template<> struct ConwayPolynomial<751, 8> { using ZPZ = aerobus::zpz<751>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<741>, ZPZV<243>, ZPZV<672>, ZPZV<672), ZPZV<3»; }; //
04385 template<> struct ConwayPolynomial<751, 9> { using ZPZ = aerobus::zpz<751>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<703>, ZPZV<489>, ZPZV<748»;
        }; // NOLTNT
04386 template<> struct ConwayPolynomial<757, 1> { using ZPZ = aerobus::zpz<757>; using type =
       POLYV<ZPZV<1>, ZPZV<755»; }; // NOLINT
04387 template<> struct ConwayPolynomial<757, 2> { using ZPZ = aerobus::zpz<757>; using type =
POLYV<ZPZV<1>, ZPZV<753>, ZPZV<2»; }; // NOLINT
04388 template<> struct ConwayPolynomial<757, 3> { using ZPZ = aerobus::zpz<757>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<755»; }; // NOLINT
04389 template<> struct ConwayPolynomial<757, 4> { using ZPZ = aerobus::zpz<757>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<10>, ZPZV<537>, ZPZV<2»; }; // NOLINT
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04390 template<> struct ConwayPolynomial<757, 5> { using ZPZ = aerobus::zpz<757>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<755»; }; // NOLINT
04391 template<> struct ConwayPolynomial<757, 6> { using ZPZ = aerobus::zpz<757>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<753>, ZPZV<739>, ZPZV<745>, ZPZV<2»; }; // NOLINT
04392 template<> struct ConwayPolynomial<757, 7> { using ZPZ = aerobus::zpz<757>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<755»; };
04393 template<> struct ConwayPolynomial<757, 8> { using ZPZ = aerobus::zpz<757>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<494>, ZPZV<110>, ZPZV<509>, ZPZV<2»; }; //
           NOLTNT
04394 template<> struct ConwayPolynomial<757, 9> { using ZPZ = aerobus::zpz<757>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<68>, ZPZV<688>, ZPZV<688>, ZPZV<702>, ZPZV<755»;
           }; // NOLINT
04395 template<> struct ConwayPolynomial<761, 1> { using ZPZ = aerobus::zpz<761>; using type =
           POLYV<ZPZV<1>, ZPZV<755»; }; // NOLINT
04396 template<> struct ConwayPolynomial<761, 2> { using ZPZ = aerobus::zpz<761>; using type =
POLYV<ZPZV<1>, ZPZV<758>, ZPZV<6»; }; // NOLINT
04397 template<> struct ConwayPolynomial<761, 3> { using ZPZ = aerobus::zpz<761>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<755»; }; // NOLINT
04398 template<> struct ConwayPolynomial<761, 4> { using ZPZ = aerobus::zpz<761>; using type =
POLYV<2PZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<658>, ZPZV<6*; }; // NOLINT
04399 template<> struct ConwayPolynomial<761, 5> { using ZPZ = aerobus::zpz<761>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<755»; }; // NOLINT
04400 template<> struct ConwayPolynomial<761, 6> { using ZPZ = aerobus::zpz<761>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<634>, ZPZV<597>, ZPZV<155>, ZPZV<6»; }; // NOLINT 04401 template<> struct ConwayPolynomial<761, 7> { using ZPZ = aerobus::zpz<761>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<755»; }; // NOLINT
04402 template<> struct ConwayPolynomial<761, 8> { using ZPZ = aerobus::zpz<761>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<603>, ZPZV<144>, ZPZV<540>, ZPZV<54); //
           NOLINT
04403 template<> struct ConwayPolynomial<761, 9> { using ZPZ = aerobus::zpz<761>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<317>, ZPZV<571>, ZPZV<755»;
           }; // NOLINT
04404 template<> struct ConwayPolynomial<769, 1> { using ZPZ = aerobus::zpz<769>; using type =
           POLYV<ZPZV<1>, ZPZV<758»; }; // NOLINT
04405 template<> struct ConwayPolynomial<769, 2> { using ZPZ = aerobus::zpz<769>; using type =
POLYV<ZPZV<1>, ZPZV<765>, ZPZV<165), ZPZV<16
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<758»; }; // NOLINT
04407 template<> struct ConwayPolynomial<769, 4> { using ZPZ = aerobus::zpz<769>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<32>, ZPZV<741>, ZPZV<11»; }; // NOLINT
04408 template<> struct ConwayPolynomial<769, 5> { using ZPZ = aerobus::zpz<769>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<758»; }; // NOLINT
04409 template<> struct ConwayPolynomial<769, 6> { using ZPZ = aerobus::zpz<769>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<43>, ZPZV<326>, ZPZV<650>, ZPZV<11»; }; // NOLINT
04410 template<> struct ConwayPolynomial<769, 7> { using ZPZ = aerobus::zpz<769>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<758»; };
04411 template<> struct ConwayPolynomial<769, 8> { using ZPZ = aerobus::zpz<769>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<560>, ZPZV<574>, ZPZV<632>, ZPZV<11»; }; //
           NOLINT
04412 template<> struct ConwayPolynomial<769, 9> { using ZPZ = aerobus::zpz<769>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5, ZPZV<5, ZPZV<623>, ZPZV<751>, ZPZV<75
           }; // NOLINT
04413 template<> struct ConwayPolynomial<773, 1> { using ZPZ = aerobus::zpz<773>; using type =
           POLYV<ZPZV<1>, ZPZV<771»; }; // NOLINT
04414 template<> struct ConwayPolynomial<773, 2> { using ZPZ = aerobus::zpz<773>; using type =
POLYV<ZPZV<1>, ZPZV<772>, ZPZV<2»; }; // NOLINT
04415 template<> struct ConwayPolynomial<773, 3> { using ZPZ = aerobus::zpz<773>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<771»; }; // NOLINT
04416 template<> struct ConwayPolynomial<773, 4> { using ZPZ = aerobus::zpz<773>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<444>, ZPZV<2»; }; // NOLINT
04417 template<> struct ConwayPolynomial<773, 5> { using ZPZ = aerobus::zpz<773>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<771»; }; // NOLINT
04418 template<> struct ConwayPolynomial<773, 6> { using ZPZ = aerobus::zpz<773>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<91>, ZPZV<3>, ZPZV<581>, ZPZV<2»; }; // NOLINT
04419 template<> struct ConwayPolynomial<773, 7> { using ZPZ = aerobus::zpz<773>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<771»; };
04420 template<> struct ConwayPolynomial<773, 8> { using ZPZ = aerobus::zpz<773>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<484>, ZPZV<94>, ZPZV<693>, ZPZV<693; }; //
           NOLINT
04421 template<> struct ConwayPolynomial<773, 9> { using ZPZ = aerobus::zpz<773>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<216>, ZPZV<574>, ZPZV<771»;
           }; // NOLINT
04422 template<> struct ConwayPolynomial<787, 1> { using ZPZ = aerobus::zpz<787>; using type =
           POLYV<ZPZV<1>, ZPZV<785»; }; // NOLINT
04423 template<> struct ConwayPolynomial<787, 2> { using ZPZ = aerobus::zpz<787>; using type =
           POLYV<ZPZV<1>, ZPZV<786>, ZPZV<2»; }; // NOLINT
04424 template<> struct ConwayPolynomial<787, 3> { using ZPZ = aerobus::zpz<787>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<785»; }; // NOLINT
04425 template<> struct ConwayPolynomial<787, 4> { using ZPZ = aerobus::zpz<787>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<605>, ZPZV<2»; }; // NOLINT

04426 template<> struct ConwayPolynomial<787, 5> { using ZPZ = aerobus::zpz<787>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<785»; }; // NOLINT
04427 template<> struct ConwayPolynomial<787, 6> { using ZPZ = aerobus::zpz<787>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<98>, ZPZV<512>, ZPZV<606>, ZPZV<2»; }; // NOLINT
04428 template<> struct ConwayPolynomial<787, 7> { using ZPZ = aerobus::zpz<787>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<785»; }; // NOLINT 04429 template<> struct ConwayPolynomial<787, 8> { using ZPZ = aerobus::zpz<787>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<612>, ZPZV<26>, ZPZV<715>, ZPZV<2»; }; //
04430 template<> struct ConwayPolynomial<787, 9> { using ZPZ = aerobus::zpz<787>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<480>, ŽPZV<573>, ZPZV<785»;
          }: // NOLINT
04431 template<> struct ConwayPolynomial<797, 1> { using ZPZ = aerobus::zpz<797>; using type =
         POLYV<ZPZV<1>, ZPZV<795»; }; // NOLINT
04432 template<> struct ConwayPolynomial<797, 2> { using ZPZ = aerobus::zpz<797>; using type =
POLYV<ZPZV<1>, ZPZV<793>, ZPZV<2»; }; // NOLINT
04433 template<> struct ConwayPolynomial<797, 3> { using ZPZ = aerobus::zpz<797>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<795»; }; // NOLINT

04434 template<> struct ConwayPolynomial<797, 4> { using ZPZ = aerobus::zpz<797>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<717>, ZPZV<2); // NOLINT

04435 template<> struct ConwayPolynomial<797, 5> { using ZPZ = aerobus::zpz<797>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<717>, ZPZV<2»; }; // NOLINT
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<795»; }; // NOLINT
04436 template<> struct ConwayPolynomial<797, 6> { using ZPZ = aerobus::zpz<797>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<657>, ZPZV<396>, ZPZV<71>, ZPZV<2»; }; // NOLINT
04437 template<> struct ConwayPolynomial<797, 7> { using ZPZ = aerobus::zpz<797>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<11>, ZPZV<795»; }; // NOLINT
04438 template<> struct ConwayPolynomial<797, 8> { using ZPZ = aerobus::zpz<797>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<74>, ZPZV<747>, ZPZV<389>, ZPZV<2»; }; //
         NOLINT
04439 template<> struct ConwayPolynomial<797, 9> { using ZPZ = aerobus::zpz<797>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<240>, ZPZV<599>, ZPZV<795»;
          }; // NOLINT
04440 template<> struct ConwayPolynomial<809, 1> { using ZPZ = aerobus::zpz<809>; using type =
         POLYV<ZPZV<1>, ZPZV<806»; }; // NOLINT
04441 template<> struct ConwayPolynomial<809, 2> { using ZPZ = aerobus::zpz<809>; using type =
         POLYV<ZPZV<1>, ZPZV<799>, ZPZV<3»; };
                                                                     // NOLINT
04442 template<> struct ConwayPolynomial<809, 3> { using ZPZ = aerobus::zpz<809>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<806»; }; // NOLINT
04443 template<> struct ConwayPolynomial<809, 4> { using ZPZ = aerobus::zpz<809>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<644>, ZPZV<644>, ZPZV<3»; }; // NOLINT
04444 template<> struct ConwayPolynomial<809, 5> { using ZPZ = aerobus::zpz<809>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<806»; }; // NOLINT
04445 template<> struct ConwayPolynomial<809, 6> { using ZPZ = aerobus::zpz<809>; using type =
POLYV<ZPZV<1>, ZPZV<1>, ZPZV<562>, ZPZV<75>, ZPZV<43>, ZPZV<3»; }; // NOLINT 04446 template<> struct ConwayPolynomial<809, 7> { using ZPZ = aerobus::zpz<809>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<806»; };
04447 template<> struct ConwayPolynomial<809, 8> { using ZPZ = aerobus::zpz<809>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<593>, ZPZV<745>, ZPZV<673>, ZPZV<673>, }; //
         NOLINT
04448 template<> struct ConwayPolynomial<809, 9> { using ZPZ = aerobus::zpz<809>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3+>, ZPZV<341>, ZPZV<341>, ZPZV<727>, ZPZV<806»;
04449 template<> struct ConwayPolynomial<811, 1> { using ZPZ = aerobus::zpz<811>; using type =
         POLYV<ZPZV<1>, ZPZV<808»; }; // NOLINT
04450 template<> struct ConwayPolynomial<811, 2> { using ZPZ = aerobus::zpz<811>; using type =
POLYV<ZPZV<1>, ZPZV<806>, ZPZV<3»; }; // NOLINT
04451 template<> struct ConwayPolynomial<811, 3> { using ZPZ = aerobus::zpz<811>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<808»; }; // NOLINT
04452 template<> struct ConwayPolynomial<811, 4> { using ZPZ = aerobus::zpz<811>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<453>, ZPZV<3»; }; // NOLINT

04453 template<> struct ConwayPolynomial<811, 5> { using ZPZ = aerobus::zpz<811>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<808»; }; // NOLINT
04454 template<> struct ConwayPolynomial<811, 6> { using ZPZ = aerobus::zpz<811>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<780>, ZPZV<755>, ZPZV<307>, ZPZV<3»; }; // NOLINT
04455 template<> struct ConwayPolynomial<811, 7> { using ZPZ = aerobus::zpz<811>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<808»; };
04456 template<> struct ConwayPolynomial<811, 8> { using ZPZ = aerobus::zpz<811>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<663>, ZPZV<806>, ZPZV<525>, ZPZV<5»; }; //
         NOLINT
04457 template<> struct ConwayPolynomial<811, 9> { using ZPZ = aerobus::zpz<811>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<382>, ZPZV<200>, ZPZV<808»;
          }; // NOLINT
04458 template<> struct ConwayPolynomial<821, 1> { using ZPZ = aerobus::zpz<821>; using type =
         POLYV<ZPZV<1>, ZPZV<819»; }; // NOLINT
04459 template<> struct ConwayPolynomial<821, 2> { using ZPZ = aerobus::zpz<821>; using type =
         POLYV<ZPZV<1>, ZPZV<816>, ZPZV<2»; }; // NOLINT
04460 template<> struct ConwayPolynomial<821, 3> { using ZPZ = aerobus::zpz<821>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<819»; }; // NOLINT
04461 template<> struct ConwayPolynomial<821, 4> { using ZPZ = aerobus::zpz<821>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<15>, ZPZV<662>, ZPZV<2»; }; // NOLINT
04462 template<> struct ConwayPolynomial<821, 5> { using ZPZ = aerobus::zpz<821>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<819»; }; // NOLINT
04463 template<> struct ConwayPolynomial<821, 6> { using ZPZ = aerobus::zpz<821>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<160>, ZPZV<130>, ZPZV<803>, ZPZV<2»; }; // NOLINT
04464 template<> struct ConwayPolynomial<821, 7> { using ZPZ = aerobus::zpz<821>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<10>, ZPZV<819»; }; // NOLINT
04465 \ \texttt{template} <> \ \texttt{struct ConwayPolynomial} < 821, \ 8> \ \{ \ \texttt{using ZPZ = aerobus::zpz} < 821>; \ \texttt{using type = aerobus::z
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<56>, ZPZV<556>, ZPZV<589>, ZPZV<2»; }; //
04466 template<> struct ConwayPolynomial<821, 9> { using ZPZ = aerobus::zpz<821>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<650>, ZPZV<557>, ZPZV<819»;
         }; // NOLINT
04467 template<> struct ConwayPolynomial<823, 1> { using ZPZ = aerobus::zpz<823>; using type =
         POLYV<ZPZV<1>, ZPZV<820»; }; // NOLINT
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04468 template<> struct ConwayPolynomial<823, 2> { using ZPZ = aerobus::zpz<823>; using type =
POLYY<ZPZV<1>, ZPZV<821>, ZPZV<3»; }; // NOLINT
04469 template<> struct ConwayPolynomial<823, 3> { using ZPZ = aerobus::zpz<823>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<820»; }; // NOLINT
04470 template<> struct ConwayPolynomial<823, 4> { using ZPZ = aerobus::zpz<823>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<819>, ZPZV<3»; }; // NOLINT
04471 template<> struct ConwayPolynomial<823, 5> { using ZPZ = aerobus::zpz<823>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<820»; }; // NOLINT
04472 template<> struct ConwayPolynomial<823, 6> { using ZPZ = aerobus::zpz<823>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<822>, ZPZV<616>, ZPZV<744>, ZPZV<3»; }; // NOLINT 04473 template<> struct ConwayPolynomial<823, 7> { using ZPZ = aerobus::zpz<823>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<10>, ZPZV<820»; }; // NOLINT
04474 template<> struct ConwayPolynomial<823, 8> { using ZPZ = aerobus::zpz<823>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<451>, ZPZV<437>, ZPZV<31>, ZPZV<3»; };
       NOLINT
04475 template<> struct ConwayPolynomial<823, 9> { using ZPZ = aerobus::zpz<823>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<64>, ZPZV<740>, ZPZV<609>, ZPZV<820»;
       ); // NOLINT
04476 template<> struct ConwayPolynomial<827, 1> { using ZPZ = aerobus::zpz<827>; using type =
       POLYV<ZPZV<1>, ZPZV<825»; }; // NOLINT
04477 template<> struct ConwayPolynomial<827, 2> { using ZPZ = aerobus::zpz<827>; using type =
POLYV<ZPZV<1>, ZPZV<821>, ZPZV<2»; }; // NOLINT

04478 template<> struct ConwayPolynomial<827, 3> { using ZPZ = aerobus::zpz<827>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<825»; }; // NOLINT
04479 template<> struct ConwayPolynomial<827, 4> { using ZPZ = aerobus::zpz<827>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<18>, ZPZV<605>, ZPZV<2»; }; // NOLINT
04480 template<> struct ConwayPolynomial<827, 5> { using ZPZ = aerobus::zpz<827>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<825»; }; // NOLINT
04481 template<> struct ConwayPolynomial<827, 6> { using ZPZ = aerobus::zpz<827>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<9>, ZPZV<685>, ZPZV<601>, ZPZV<691>, ZPZV<2»; }; // NOLINT 04482 template<> struct ConwayPolynomial<827, 7> { using ZPZ = aerobus::zpz<827>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<825»; };
04483 template<> struct ConwayPolynomial<827, 8> { using ZPZ = aerobus::zpz<827>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<812>, ZPZV<79>, ZPZV<32>, ZPZV<32>; }; //
       NOLINT
04484 template<> struct ConwayPolynomial<827, 9> { using ZPZ = aerobus::zpz<827>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<177>, ZPZV<372>, ZPZV<825»;
04485 template<> struct ConwayPolynomial<829, 1> { using ZPZ = aerobus::zpz<829>; using type =
       POLYV<ZPZV<1>, ZPZV<827»; }; // NOLINT
04486 template<> struct ConwayPolynomial<829, 2> { using ZPZ = aerobus::zpz<829>; using type =
POLYV<ZPZV<1>, ZPZV<828, ZPZV<2»; }; // NOLINT
04487 template<> struct ConwayPolynomial<829, 3> { using ZPZ = aerobus::zpz<829>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<827»; }; // NOLINT
04488 template<> struct ConwayPolynomial<829, 4> { using ZPZ = aerobus::zpz<829>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<9>, ZPZV<604>, ZPZV<2»; }; // NOLINT
04489 template<> struct ConwayPolynomial<829, 5> { using ZPZ = aerobus::zpz<829>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<827»; }; // NOLINT
04490 template<> struct ConwayPolynomial<829, 6> { using ZPZ = aerobus::zpz<829>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<341>, ZPZV<476>, ZPZV<817>, ZPZV<2»; }; // NOLINT
04491 template<> struct ConwayPolynomial<829, 7> { using ZPZ = aerobus::zpz<829>;
                                                                                              using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<827»; };
04492 template<> struct ConwayPolynomial<829, 8> { using ZPZ = aerobus::zpz<829>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<468>, ZPZV<241>, ZPZV<138>, ZPZV<2»; }; //
       NOLINT
04493 template<> struct ConwayPolynomial<829, 9> { using ZPZ = aerobus::zpz<829>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<621>, ZPZV<552>, ZPZV<827»;
04494 template<> struct ConwayPolynomial<839, 1> { using ZPZ = aerobus::zpz<839>; using type =
      POLYV<ZPZV<1>, ZPZV<828»; }; // NOLINT
04495 template<> struct ConwayPolynomial<839, 2> { using ZPZ = aerobus::zpz<839>; using type =
POLYV<ZPZV<1>, ZPZV<838>, ZPZV<11»; }; // NOLINT
04496 template<> struct ConwayPolynomial<839, 3> { using ZPZ = aerobus::zpz<839>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<828»; }; // NOLINT
04497 template<> struct ConwayPolynomial<839, 4> { using ZPZ = aerobus::zpz<839>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<609>, ZPZV<11»; }; // NOLINT
04498 template<> struct ConwayPolynomial<839, 5> { using ZPZ = aerobus::zpz<839>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<828; }; // NOLINT
04499 template<> struct ConwayPolynomial<839, 6> { using ZPZ = aerobus::zpz<839>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<370>, ZPZV<537>, ZPZV<23>, ZPZV<11»; }; // NOLINT
04500 template<> struct ConwayPolynomial<839, 7> { using ZPZ = aerobus::zpz<839>;
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<7>, ZPZV<828»; };
04501 template<> struct ConwayPolynomial<839, 8> { using ZPZ = aerobus::zpz<839>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<16>, ZPZV<553>, ZPZV<779>, ZPZV<329>, ZPZV<11»; }; //
       NOLINT
04502 template<> struct ConwayPolynomial<839, 9> { using ZPZ = aerobus::zpz<839>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<349>, ZPZV<206>, ZPZV<828*;
       }; // NOLINT
04503 template<> struct ConwayPolynomial<853, 1> { using ZPZ = aerobus::zpz<853>; using type =
      POLYV<ZPZV<1>, ZPZV<851»; }; // NOLINT
04504 template<> struct ConwayPolynomial<853, 2> { using ZPZ = aerobus::zpz<853>; using type =
POLYV<ZPZV<1>, ZPZV<852>, ZPZV<2»; }; // NOLINT
04505 template<> struct ConwayPolynomial<853, 3> { using ZPZ = aerobus::zpz<853>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<851»; }; // NOLINT
04506 template<> struct ConwayPolynomial<853, 4> { using ZPZ = aerobus::zpz<853>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<623>, ZPZV<2»; }; // NOLINT
04507 template<> struct ConwayPolynomial<853, 5> { using ZPZ = aerobus::zpz<853>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<851»; }; // NOLINT
04508 template<> struct ConwayPolynomial<853, 6> { using ZPZ = aerobus::zpz<853>; using type =
      POLYV<2PZV<1>, 2PZV<0>, ZPZV<0>, ZPZV<276>, ZPZV<194>, ZPZV<512>, ZPZV<2»; }; // NOLINT
04509 template<> struct ConwayPolynomial<853, 7> { using ZPZ = aerobus::zpz<853>; using type =
      04510 template<> struct ConwayPolynomial<853, 8> { using ZPZ = aerobus::zpz<853>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<544>, ZPZV<846>, ZPZV<118>, ZPZV<2»; }; //
04511 template<> struct ConwayPolynomial<853, 9> { using ZPZ = aerobus::zpz<853>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<677>, ZPZV<821>, ZPZV<851»;
       }; // NOLINT
04512 template<> struct ConwavPolvnomial<857, 1> { using ZPZ = aerobus::zpz<857>; using type =
       POLYV<ZPZV<1>, ZPZV<854»; }; // NOLINT
04513 template<> struct ConwayPolynomial<857, 2> { using ZPZ = aerobus::zpz<857>; using type =
       POLYV<ZPZV<1>, ZPZV<850>, ZPZV<3»; };
                                                   // NOLINT
04514 template<> struct ConwayPolynomial<857, 3> { using ZPZ = aerobus::zpz<857>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<854»; }; // NOLINT
04515 template<> struct ConwayPolynomial<857, 4> { using ZPZ = aerobus::zpz<857>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<528>, ZPZV<3»; }; // NOLINT
04516 template<> struct ConwayPolynomial<857, 5> { using ZPZ = aerobus::zpz<857>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<854»; }; // NOLINT
04517 template<> struct ConwayPolynomial<857, 6> { using ZPZ = aerobus::zpz<857>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<32>, ZPZV<824>, ZPZV<65>, ZPZV<3^{\circ}; // NOLINT 04518 template<> struct ConwayPolynomial<857, 7> { using ZPZ = aerobus::zpz<857>; using type
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<854»; };
                                                                                                       // NOLINT
04519 template<> struct ConwayPolynomial<857, 8> { using ZPZ = aerobus::zpz<857>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPŽV<0>, ZPŽV<0>, ZPZV<3>, ZPZV<611>, ZPZV<552>, ZPZV<494>, ZPZV<3»; }; //
       NOT.TNT
04520 template<> struct ConwayPolynomial<857, 9> { using ZPZ = aerobus::zpz<857>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<30>, ZPZV<308>, ZPZV<719>, ZPZV<854»;
       }; // NOLINT
04521 template<> struct ConwayPolynomial<859, 1> { using ZPZ = aerobus::zpz<859>; using type =
       POLYV<ZPZV<1>, ZPZV<857»; }; // NOLINT
04522 template<> struct ConwayPolynomial<859, 2> { using ZPZ = aerobus::zpz<859>; using type =
                                                   // NOLINT
POLYV<ZPZV<1>, ZPZV<858, ZPZV<2»; }; // NOLINT
04523 template<> struct ConwayPolynomial<859, 3> { using ZPZ = aerobus::zpz<859>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<857»; }; // NOLINT
04524 template<> struct ConwayPolynomial<859, 4> { using ZPZ = aerobus::zpz<859>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<530>, ZPZV<2»; }; // NOLINT
04525 template<> struct ConwayPolynomial<859, 5> { using ZPZ = aerobus::zpz<859>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<857»; }; // NOLINT
04526 template<> struct ConwayPolynomial<859, 6> { using ZPZ = aerobus::zpz<859>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<419>, ZPZV<646>, ZPZV<566>, ZPZV<2»; }; // NOLINT 04527 template<> struct ConwayPolynomial<859, 7> { using ZPZ = aerobus::zpz<859>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<857»; }; // NOLINT
04528 template<> struct ConwayPolynomial<859, 8> { using ZPZ = aerobus::zpz<859>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<522>, ZPZV<446>, ZPZV<672>, ZPZV<672>, ZPZV<2»; }; //
       NOLINT
04529 template<> struct ConwayPolynomial<859, 9> { using ZPZ = aerobus::zpz<859>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<7>, ZPZV<648>, ZPZV<845>, ZPZV<857»;
       }; // NOLINT
04530 template<> struct ConwayPolynomial<863, 1> { using ZPZ = aerobus::zpz<863>; using type =
       POLYV<ZPZV<1>, ZPZV<858»; }; // NOLINT
04531 template<> struct ConwayPolynomial<863, 2> { using ZPZ = aerobus::zpz<863>; using type =
POLYY<ZPZV<1>, ZPZV<862>, ZPZV<5»; }; // NOLINT
04532 template<> struct ConwayPolynomial<863, 3> { using ZPZ = aerobus::zpz<863>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<858»; }; // NOLINT
04533 template<> struct ConwayPolynomial<863, 4> { using ZPZ = aerobus::zpz<863>; using type =
POLYV<ZPZV<1>, ZPZV<2>, ZPZV<770>, ZPZV<5»; }; // NOLINT
04534 template<> struct ConwayPolynomial<863, 5> { using ZPZ = aerobus::zpz<863>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<858»; }; // NOLINT

04535 template<> struct ConwayPolynomial<863, 6> { using ZPZ = aerobus::zpz<863>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<330>, ZPZV<62>, ZPZV<300>, ZPZV<5»; }; // NOLINT
04536 template<> struct ConwayPolynomial<863, 7> { using ZPZ = aerobus::zpz<863>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<858»; };
04537 template<> struct ConwayPolynomial<863, 8> { using ZPZ = aerobus::zpz<863>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<765>, ZPZV<576>, ZPZV<849>, ZPZV<5»; }; //
       NOLINT
04538 template<> struct ConwayPolynomial<863, 9> { using ZPZ = aerobus::zpz<863>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<381>, ZPZV<1>, ZPZV<858»; };
       // NOLINT
04539 template<> struct ConwayPolynomial<877, 1> { using ZPZ = aerobus::zpz<877>; using type =
      POLYV<ZPZV<1>, ZPZV<875»; }; // NOLINT
04540 template<> struct ConwayPolynomial<877, 2> { using ZPZ = aerobus::zpz<877>; using type =
POLYV<ZPZV<1>, ZPZV<873>, ZPZV<2»; }; // NOLINT
04541 template<> struct ConwayPolynomial<877, 3> { using ZPZ = aerobus::zpz<877>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<875»; }; // NOLINT
04542 template<> struct ConwayPolynomial<877, 4> { using ZPZ = aerobus::zpz<877>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<604>, ZPZV<2»; }; // NOLINT
04543 template<> struct ConwayPolynomial<877, 5> { using ZPZ = aerobus::zpz<877>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<875»; }; // NOLINT
04544 template<> struct ConwayPolynomial<877, 6> { using ZPZ = aerobus::zpz<877>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<629>, ZPZV<400>, ZPZV<855>, ZPZV<2»; }; // NOLINT
04545 template<> struct ConwayPolynomial<877, 7> { using ZPZ = aerobus::zpz<877>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<875»; };
04546 template<> struct ConwayPolynomial<877, 8> { using ZPZ = aerobus::zpz<877>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<767>, ZPZV<319>, ZPZV<347>, ZPZV<34>; }; //
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NOLINT
04547 template<> struct ConwayPolynomial<877, 9> { using ZPZ = aerobus::zpz<877>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<770>, ZPZV<278>, ZPZV<875»;
           }; // NOLINT
04548 template<> struct ConwayPolynomial<881, 1> { using ZPZ = aerobus::zpz<881>; using type =
           POLYV<ZPZV<1>, ZPZV<878»; }; // NOLINT
04549 template<> struct ConwayPolynomial<881, 2> { using ZPZ = aerobus::zpz<881>; using type =
           POLYV<ZPZV<1>, ZPZV<869>, ZPZV<3»; }; // NOLINT
04550 template<> struct ConwayPolynomial<881, 3> { using ZPZ = aerobus::zpz<881>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<878»; }; // NOLINT
04551 template<> struct ConwayPolynomial<881, 4> { using ZPZ = aerobus::zpz<881>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<447>, ZPZV<3»; }; // NOLINT
04552 template<> struct ConwayPolynomial<881, 5> { using ZPZ = aerobus::zpz<881>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<878»; }; // NOLINT
04553 template<> struct ConwayPolynomial<881, 6> { using ZPZ = aerobus::zpz<881>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<218>, ZPZV<419>, ZPZV<231>, ZPZV<3»; }; // NOLINT 04554 template<> struct ConwayPolynomial<881, 7> { using ZPZ = aerobus::zpz<881>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<8>, ZPZV<8
8 , ZPZV<8 , ZPZV
                                                                                                                                                              // NOLINT
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<21>, ZPZV<635>, ZPZV<490>, ZPZV<561>, ZPZV<3»; }; //
           NOLINT
04556 template<> struct ConwayPolynomial<881, 9> { using ZPZ = aerobus::zpz<881>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<587>, ZPZV<510>, ZPZV<878»;
           }: // NOLINT
04557 template<> struct ConwayPolynomial<883, 1> { using ZPZ = aerobus::zpz<883>; using type =
          POLYV<ZPZV<1>, ZPZV<881»; }; // NOLINT
04558 template<> struct ConwayPolynomial<883, 2> { using ZPZ = aerobus::zpz<883>; using type =
          POLYV<ZPZV<1>, ZPZV<879>, ZPZV<2»; }; // NOLINT
04559 template<> struct ConwayPolynomial<883, 3> { using ZPZ = aerobus::zpz<883>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<6>, ZPZV<881»; }; // NOLINT
04560 template<> struct ConwayPolynomial<883, 4> { using ZPZ = aerobus::zpz<883>; using type =
POLYV<ZPZV<1>, ZPZV<8>, ZPZV<715>, ZPZV<2»; }; // NOLINT
04561 template<> struct ConwayPolynomial<883, 5> { using ZPZ = aerobus::zpz<883>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<14>, ZPZV<881»; }; // NOLINT
04562 template<> struct ConwayPolynomial<883, 6> { using ZPZ = aerobus::zpz<883>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<879>, ZPZV<865>, ZPZV<871>, ZPZV<2»; }; // NOLINT
04563 template<> struct ConwayPolynomial<883, 7> { using ZPZ = aerobus::zpz<883>; using type
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<881»; }; // NOLINT
04564 template<> struct ConwayPolynomial<883, 8> { using ZPZ = aerobus::zpz<883>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<740>, ZPZV<762>, ZPZV<768>, ZPZV<20»; }; //
           NOT.TNT
04565 template<> struct ConwayPolynomial<883, 9> { using ZPZ = aerobus::zpz<883>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<557>, ZPZV<881»;
           }; // NOLINT
04566 template<> struct ConwayPolynomial<887, 1> { using ZPZ = aerobus::zpz<887>; using type =
          POLYV<ZPZV<1>, ZPZV<882»; }; // NOLINT
04567 template<> struct ConwayPolynomial<887, 2> { using ZPZ = aerobus::zpz<887>; using type =
POLYY<ZPZV<1>, ZPZV<885>, ZPZV<5»; }; // NOLINT

04568 template<> struct ConwayPolynomial<887, 3> { using ZPZ = aerobus::zpz<887>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<882»; }; // NOLINT
04569 template<> struct ConwayPolynomial<887, 4> { using ZPZ = aerobus::zpz<887>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<883>, ZPZV<5»; }; // NOLINT
04570 template<> struct ConwayPolynomial<887, 5> { using ZPZ = aerobus::zpz<887>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<882»; }; // NOLINT
04571 template<> struct ConwayPolynomial<887, 6> { using ZPZ = aerobus::zpz<887>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<775>, ZPZV<341>, ZPZV<5*; }; // NOLINT 04572 template<> struct ConwayPolynomial<887, 7> { using ZPZ = aerobus::zpz<887>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<82»; };
04573 template<> struct ConwayPolynomial<887, 8> { using ZPZ = aerobus::zpz<887>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<781>, ZPZV<381>, ZPZV<706>, ZPZV<5»; }; //
           NOLINT
04574 template<> struct ConwayPolynomial<887, 9> { using ZPZ = aerobus::zpz<887>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<727>, ZPZV<345, Z
           }; // NOLINT
04575 template<> struct ConwayPolynomial<907, 1> { using ZPZ = aerobus::zpz<907>; using type =
           POLYV<ZPZV<1>, ZPZV<905»; }; // NOLINT
04576 template<> struct ConwayPolynomial<907, 2> { using ZPZ = aerobus::zpz<907>; using type =
POLYV<ZPZV<1>, ZPZV<903>, ZPZV<2»; }; // NOLINT
04577 template<> struct ConwayPolynomial<907, 3> { using ZPZ = aerobus::zpz<907>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<905»; }; // NOLINT
04578 template<> struct ConwayPolynomial<907, 4> { using ZPZ = aerobus::zpz<907>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<478>, ZPZV<2»; }; // NOLINT
04579 template<> struct ConwayPolynomial<907, 5> { using ZPZ = aerobus::zpz<907>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<905»; }; // NOLINT
04580 template<> struct ConwayPolynomial<907, 6> { using ZPZ = aerobus::zpz<907>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<626>, ZPZV<752>, ZPZV<266>, ZPZV<2»; }; // NOLINT
04581 template<> struct ConwayPolynomial<907, 7> { using ZPZ = aerobus::zpz<907>;
                                                                                                                                                using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<905»; };
04582 template<> struct ConwayPolynomial<907, 8> { using ZPZ = aerobus::zpz<907>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<584>, ZPZV<518>, ZPZV<811>, ZPZV<8); }; //
           NOLINT
04583 template<> struct ConwayPolynomial<907, 9> { using ZPZ = aerobus::zpz<907>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<783>, ZPZV<57>, ZPZV<905»;
           }; // NOLINT
04584 template<> struct ConwayPolynomial<911, 1> { using ZPZ = aerobus::zpz<911>; using type =
          POLYV<ZPZV<1>, ZPZV<894»; }; // NOLINT
04585 template<> struct ConwayPolynomial<911, 2> { using ZPZ = aerobus::zpz<911>; using type =
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POLYV<ZPZV<1>, ZPZV<909>, ZPZV<17»; }; // NOLINT
04586 template<> struct ConwayPolynomial<911, 3> { using ZPZ = aerobus::zpz<911>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<894»; }; // NOLINT
04587 template<> struct ConwayPolynomial<911, 4> { using ZPZ = aerobus::zpz<911>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<887>, ZPZV<17»; }; // NOLINT
04588 template<> struct ConwayPolynomial<911, 5> { using ZPZ = aerobus::zpz<911>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<894»; }; // NOLINT
04589 template<> struct ConwayPolynomial<911, 6> { using ZPZ = aerobus::zpz<911>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<172>, ZPZV<683>, ZPZV<19>, ZPZV<17»; }; // NOLINT
04590 template<> struct ConwayPolynomial<911, 7> { using ZPZ = aerobus::zpz<911>; using type :
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<894»; };
                                                                                                                                   // NOLINT
04591 template<> struct ConwayPolynomial<911, 8> { using ZPZ = aerobus::zpz<911>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<708>, ZPZV<590>, ZPZV<168>, ZPZV<17*; }; //
04592 template<> struct ConwayPolynomial<911, 9> { using ZPZ = aerobus::zpz<911>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<679>, ZPZV<116>, ZPZV<894»;
         }; // NOLTNT
04593 template<> struct ConwayPolynomial<919, 1> { using ZPZ = aerobus::zpz<919>; using type =
         POLYV<ZPZV<1>, ZPZV<912»; }; // NOLINT
04594 template<> struct ConwayPolynomial<919, 2> { using ZPZ = aerobus::zpz<919>; using type =
         POLYV<ZPZV<1>, ZPZV<910>, ZPZV<7»; }; // NOLINT
04595 template<> struct ConwayPolynomial<919, 3> { using ZPZ = aerobus::zpz<919>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<912»; }; // NOLINT
04596 template<> struct ConwayPolynomial<919, 4> { using ZPZ = aerobus::zpz<919>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<602>, ZPZV<7»; }; // NOLINT
04597 template<> struct ConwayPolynomial<919, 5> { using ZPZ = aerobus::zpz<919>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<912»; }; // NOLINT
04598 template<> struct ConwayPolynomial<919, 6> { using ZPZ = aerobus::zpz<919>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<312>, ZPZV<617>, ZPZV<113>, ZPZV<7»; }; // NOLINT
04599 template<> struct ConwayPolynomial<919, 7> { using ZPZ = aerobus::zpz<919>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>; ZPZV<0>, ZPZV<0 , ZPZ
04600 template<> struct ConwayPolynomial<919, 8> { using ZPZ = aerobus::zpz<919>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<708>, ZPZV<202>, ZPZV<504>, ZPZV<7»; }; //
         NOLINT
04601 template<> struct ConwayPolynomial<919, 9> { using ZPZ = aerobus::zpz<919>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<410>, ZPZV<623>, ZPZV<912»;
         }; // NOLINT
04602 template<> struct ConwayPolynomial<929, 1> { using ZPZ = aerobus::zpz<929>; using type =
         POLYV<ZPZV<1>, ZPZV<926»; }; // NOLINT
04603 template<> struct ConwayPolynomial<929, 2> { using ZPZ = aerobus::zpz<929>; using type =
POLYV<ZPZV<1>, ZPZV<917, ZPZV<3»; }; // NOLINT
04604 template<> struct ConwayPolynomial<929, 3> { using ZPZ = aerobus::zpz<929>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<926»; }; // NOLINT
04605 template<> struct ConwayPolynomial<929, 4> { using ZPZ = aerobus::zpz<929>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<787>, ZPZV<3»; }; // NOLINT
04606 template<> struct ConwayPolynomial<929, 5> { using ZPZ = aerobus::zpz<929>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<926»; }; // NOLINT
04607 template<> struct ConwayPolynomial<929, 6> { using ZPZ = aerobus::zpz<929>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<805>, ZPZV<92>, ZPZV<86>, ZPZV<3»; }; // NOLINT
04608 template<> struct ConwayPolynomial<929, 7> { using ZPZ = aerobus::zpz<929>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<926»; }; // J
04609 template<> struct ConwayPolynomial<929, 8> { using ZPZ = aerobus::zpz<929>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<699>, ZPZV<292>, ZPZV<586>, ZPZV<3»; }; //
         NOLINT
04610 template<> struct ConwayPolynomial<929, 9> { using ZPZ = aerobus::zpz<929>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<481>, ZPZV<481>, ZPZV<199>, ZPZV<926»;
04611 template<> struct ConwayPolynomial<937, 1> { using ZPZ = aerobus::zpz<937>; using type =
         POLYV<ZPZV<1>, ZPZV<932»; }; // NOLINT
04612 template<> struct ConwayPolynomial<937, 2> { using ZPZ = aerobus::zpz<937>; using type =
POLYV<ZPZV<1>, ZPZV<934>, ZPZV<5»; }; // NOLINT
04613 template<> struct ConwayPolynomial<937, 3> { using ZPZ = aerobus::zpz<937>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<932»; }; // NOLINT
04614 template<> struct ConwayPolynomial<937, 4> { using ZPZ = aerobus::zpz<937>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<23>, ZPZV<585>, ZPZV<5»; }; // NOLINT
04615 template<> struct ConwayPolynomial<937, 5> { using ZPZ = aerobus::zpz<937>; using type =
        04616 template<> struct ConwayPolynomial<937, 6> { using ZPZ = aerobus::zpz<937>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<794>, ZPZV<727>, ZPZV<934>, ZPZV<5»; }; // NOLINT
04617 template<> struct ConwayPolynomial<937, 7> { using ZPZ = aerobus::zpz<937>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<24>, ZPZV<932»; };
04618 template<> struct ConwayPolynomial<937, 8> { using ZPZ = aerobus::zpz<937>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<658>, ZPZV<26>, ZPZV<53>, ZPZV<5»; }; //
         NOLINT
04619 template<> struct ConwayPolynomial<937, 9> { using ZPZ = aerobus::zpz<937>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<28>, ZPZV<533>, ZPZV<483>, ZPZV<932»;
         }; // NOLINT
04620 template<> struct ConwayPolynomial<941, 1> { using ZPZ = aerobus::zpz<941>; using type =
        POLYV<ZPZV<1>, ZPZV<939»; }; // NOLINT
04621 template<> struct ConwayPolynomial<941, 2> { using ZPZ = aerobus::zpz<941>; using type =
POLYY<ZPZV<1>, ZPZV<940>, ZPZV<2»; }; // NOLINT
04622 template<> struct ConwayPolynomial<941, 3> { using ZPZ = aerobus::zpz<941>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<939»; }; // NOLINT
04623 template<> struct ConwayPolynomial<941, 4> { using ZPZ = aerobus::zpz<941>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<505>, ZPZV<2»; }; // NOLINT
04624 template<> struct ConwayPolynomial<941, 5> { using ZPZ = aerobus::zpz<941>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<939»; }; // NOLINT
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04625 template<> struct ConwayPolynomial<941, 6> { using ZPZ = aerobus::zpz<941>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<459>, ZPZV<694>, ZPZV<538>, ZPZV<2»; }; // NOLINT 04626 template<> struct ConwayPolynomial<941, 7> { using ZPZ = aerobus::zpz<941>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<939»; };
04627 template<> struct ConwayPolynomial<941, 8> { using ZPZ = aerobus::zpz<941>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<605>, ZPZV<675>, ZPZV<590>, ZPZV<2»; }; //
04628 template<> struct ConwayPolynomial<941, 9> { using ZPZ = aerobus::zpz<941>; using type
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<708>, ZPZV<197>, ZPZV<939»;
              }; // NOLINT
04629 template<> struct ConwayPolynomial<947, 1> { using ZPZ = aerobus::zpz<947>; using type =
             POLYV<ZPZV<1>, ZPZV<945»; }; // NOLINT
04630 template<> struct ConwayPolynomial<947, 2> { using ZPZ = aerobus::zpz<947>; using type =
              POLYV<ZPZV<1>, ZPZV<943>, ZPZV<2»; }; // NOLINT
04631 template<> struct ConwayPolynomial<947, 3> { using ZPZ = aerobus::zpz<947>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<945»; }; // NOLINT
04632 template<> struct ConwayPolynomial<947, 4> { using ZPZ = aerobus::zpz<947>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<894>, ZPZV<2»; }; // NOLINT
04633 template<> struct ConwayPolynomial<947, 5> { using ZPZ = aerobus::zpz<947>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<945»; }; // NOLINT
04634 template<> struct ConwayPolynomial<947, 6> { using ZPZ = aerobus::zpz<947>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<880>, ZPZV<787>, ZPZV<95>, ZPZV<2»; }; // NOLINT
04635 template<> struct ConwayPolynomial<947, 7> { using ZPZ = aerobus::zpz<947>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6 - , 
04636 template<> struct ConwayPolynomial<947, 8> { using ZPZ = aerobus::zpz<947>; using type :
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<845>, ZPZV<597>, ZPZV<581>, ZPZV<2»; }; //
04637 template<> struct ConwayPolynomial<947, 9> { using ZPZ = aerobus::zpz<947>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<269>, ZPZV<808>, ZPZV<945»;
              }; // NOLINT
04638 template<> struct ConwayPolynomial<953, 1> { using ZPZ = aerobus::zpz<953>; using type =
             POLYV<ZPZV<1>, ZPZV<950»; }; // NOLINT
04639 template<> struct ConwayPolynomial<953, 2> { using ZPZ = aerobus::zpz<953>; using type =
              POLYV<ZPZV<1>, ZPZV<947>, ZPZV<3»; }; // NOLINT
04640 template<> struct ConwayPolynomial<953, 3> { using ZPZ = aerobus::zpz<953>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<950»; }; // NOLINT

04641 template<> struct ConwayPolynomial<9953, 4> { using ZPZ = aerobus::zpz<953>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<865>, ZPZV<3»; }; // NOLINT

04642 template<> struct ConwayPolynomial<953, 5> { using ZPZ = aerobus::zpz<953>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<950»; }; // NOLINT
04643 template<> struct ConwayPolynomial<953, 6> { using ZPZ = aerobus::zpz<953>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<507>, ZPZV<829>, ZPZV<730>, ZPZV<3»; }; // NOLINT 04644 template<> struct ConwayPolynomial<953, 7> { using ZPZ = aerobus::zpz<953>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<55, ZPZV<5
04645 template<> struct ConwayPolynomial<953, 8> { using ZPZ = aerobus::zpz<953>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<579>, ZPZV<658>, ZPZV<108>, ZPZV<3»; }; //
              NOLINT
04646 template<> struct ConwayPolynomial<953, 9> { using ZPZ = aerobus::zpz<953>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<819>, ZPZV<316>, ZPZV<950»;
              }; // NOLINT
04647 template<> struct ConwayPolynomial<967, 1> { using ZPZ = aerobus::zpz<967>; using type =
              POLYV<ZPZV<1>, ZPZV<962»; }; // NOLINT
04648 template<> struct ConwayPolynomial<967, 2> { using ZPZ = aerobus::zpz<967>; using type =
POLYV<ZPZV<1>, ZPZV<965>, ZPZV<5»; }; // NOLINT
04649 template<> struct ConwayPolynomial<967, 3> { using ZPZ = aerobus::zpz<967>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<962»; }; // NOLINT
04650 template<> struct ConwayPolynomial<967, 4> { using ZPZ = aerobus::zpz<967>; using type =
POLYV<ZPZV<1>, ZPZV<3>, ZPZV<963>, ZPZV<963>, ZPZV<5»; }; // NOLINT
04651 template<> struct ConwayPolynomial<967, 5> { using ZPZ = aerobus::zpz<967>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<962»; }; // NOLINT
04652 template<> struct ConwayPolynomial<967, 6> { using ZPZ = aerobus::zpz<967>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<805>, ZPZV<948>, ZPZV<831>, ZPZV<5»; }; // NOLINT
04653 template<> struct ConwayPolynomial<967, 7> { using ZPZ = aerobus::zpz<967>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<962»; };
04654 template<> struct ConwayPolynomial<967, 8> { using ZPZ = aerobus::zpz<967>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<840>, ZPZV<502>, ZPZV<136>, ZPZV<5»; }; //
              NOLINT
04655 template<> struct ConwayPolynomial<967, 9> { using ZPZ = aerobus::zpz<967>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<512>, ZPZV<783>, Z
              }; // NOLINT
04656 template<> struct ConwayPolynomial<971, 1> { using ZPZ = aerobus::zpz<971>; using type =
              POLYV<ZPZV<1>, ZPZV<965»; }; // NOLINT
04657 template<> struct ConwayPolynomial<971, 2> { using ZPZ = aerobus::zpz<971>; using type =
POLYV<ZPZV<1>, ZPZV<970>, ZPZV<6»; }; // NOLINT
04658 template<> struct ConwayPolynomial<971, 3> { using ZPZ = aerobus::zpz<971>; using type =
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<965»; }; // NOLINT
04659 template<> struct ConwayPolynomial<971, 4> { using ZPZ = aerobus::zpz<971>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<527>, ZPZV<6»; }; // NOLINT
04660 template<> struct ConwayPolynomial<971, 5> { using ZPZ = aerobus::zpz<971>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<14>, ZPZV<965»; }; // NOLINT

04661 template<> struct ConwayPolynomial<971, 6> { using ZPZ = aerobus::zpz<971>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<970>, ZPZV<729>, ZPZV<718>, ZPZV<6»; }; // NOLINT
04662 template<> struct ConwayPolynomial<971, 7> { using ZPZ = aerobus::zpz<971>; using type
             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<965»; };
04663 template<> struct ConwayPolynomial<971, 8> { using ZPZ = aerobus::zpz<971>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5, ZPZV<25>, ZPZV<281>, ZPZV<206>, ZPZV<6»; }; //
              NOLTNT
```

```
04664 template<> struct ConwayPolynomial<971, 9> { using ZPZ = aerobus::zpz<971>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<805>, ZPZV<473>, ZPZV<965»;
         }; // NOLINT
04665 template<> struct ConwayPolynomial<977, 1> { using ZPZ = aerobus::zpz<977>; using type =
         POLYV<ZPZV<1>, ZPZV<974»; }; // NOLINT
04666 template<> struct ConwayPolynomial<977, 2> { using ZPZ = aerobus::zpz<977>; using type =
         POLYV<ZPZV<1>, ZPZV<972>, ZPZV<3»; }; // NOLINT
04667 template<> struct ConwayPolynomial<977, 3> { using ZPZ = aerobus::zpz<977>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<974»; }; // NOLINT
04668 template<> struct ConwayPolynomial<977, 4> { using ZPZ = aerobus::zpz<977>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<800>, ZPZV<3»; }; // NOLINT

04669 template<> struct ConwayPolynomial<977, 5> { using ZPZ = aerobus::zpz<977>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<974»; }; // NOLINT
04670 template<> struct ConwayPolynomial<977, 6> { using ZPZ = aerobus::zpz<977>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<729>, ZPZV<830>, ZPZV<753>, ZPZV<3»; }; // NOLINT
04671 template<> struct ConwayPolynomial<977, 7> { using ZPZ = aerobus::zpz<977>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<974»; };
04672 template<> struct ConwayPolynomial<977, 8> { using ZPZ = aerobus::zpz<977>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<80>, ZPZV<805>, ZPZV<807>, ZPZV<77>, ZPZV<3»; }; //
04673 template<> struct ConwayPolynomial<977, 9> { using ZPZ = aerobus::zpz<977>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<450>, ZPZV<740>, ZPZV<974»;
         }; // NOLINT
04674 template<> struct ConwayPolynomial<983, 1> { using ZPZ = aerobus::zpz<983>; using type =
         POLYV<ZPZV<1>, ZPZV<978»; }; // NOLINT
04675 template<> struct ConwayPolynomial<983, 2> { using ZPZ = aerobus::zpz<983>; using type =
         POLYV<ZPZV<1>, ZPZV<981>, ZPZV<5»; }; // NOLINT
04676 template<> struct ConwayPolynomial<983, 3> { using ZPZ = aerobus::zpz<983>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<978»; }; // NOLINT

04677 template<> struct ConwayPolynomial<983, 4> { using ZPZ = aerobus::zpz<983>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<567>, ZPZV<5»; }; // NOLINT

04678 template<> struct ConwayPolynomial<983, 5> { using ZPZ = aerobus::zpz<983>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<978»; }; // NOLINT
04679 template<> struct ConwayPolynomial<983, 6> { using ZPZ = aerobus::zpz<983>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<849>, ZPZV<296>, ZPZV<288>, ZPZV<5»; }; // NOLINT 04680 template<> struct ConwayPolynomial<983, 7> { using ZPZ = aerobus::zpz<983>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<978»; };
                                                                                                                                          // NOLINT
04681 template<> struct ConwayPolynomial<983, 8> { using ZPZ = aerobus::zpz<983>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<738>, ZPZV<276>, ZPZV<530>, ZPZV<53»; }; //
04682 template<> struct ConwayPolynomial<983, 9> { using ZPZ = aerobus::zpz<983>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<858>, ZPZV<87>, ZPZV<978»;
         }: // NOLINT
04683 template<> struct ConwayPolynomial<991, 1> { using ZPZ = aerobus::zpz<991>; using type =
         POLYV<ZPZV<1>, ZPZV<985»; }; // NOLINT
04684 template<> struct ConwayPolynomial<991, 2> { using ZPZ = aerobus::zpz<991>; using type =
         POLYV<ZPZV<1>, ZPZV<989>, ZPZV<6»; }; // NOLINT
04685 template<> struct ConwayPolynomial<991, 3> { using ZPZ = aerobus::zpz<991>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<985»; }; // NOLINT
04686 template<> struct ConwayPolynomial<991, 4> { using ZPZ = aerobus::zpz<991>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<10>, ZPZV<79, ZPZV<794>, ZPZV<6»; ); // NOLINT
04687 template<> struct ConwayPolynomial<991, 5> { using ZPZ = aerobus::zpz<991>; using type =
          \verb"POLYV<ZPZV<1>, \verb"ZPZV<0>, \verb"ZPZV<0>, \verb"ZPZV<3>, \verb"ZPZV<985"; \verb"}; \verb"// NOLINT" | 
04688 template<> struct ConwayPolynomial<991, 6> { using ZPZ = aerobus::zpz<991>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<637>, ZPZV<855>, ZPZV<278>, ZPZV<6%; }; // NOLINT 04689 template<> struct ConwayPolynomial<991, 7> { using ZPZ = aerobus::zpz<991>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<985»; };
04690 template<> struct ConwayPolynomial<991, 8> { using ZPZ = aerobus::zpz<991>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<941>, ZPZV<786>, ZPZV<234>, ZPZV<6»; }; //
         NOLINT
04691 template<> struct ConwayPolynomial<991, 9> { using ZPZ = aerobus::zpz<991>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<966>, ZPZV<266>, ZPZV<222>, ZPZV<985»;
         }; // NOLINT
04692 template<> struct ConwayPolynomial<997, 1> { using ZPZ = aerobus::zpz<997>; using type =
         POLYV<ZPZV<1>, ZPZV<990»; }; // NOLINT
04693 template<> struct ConwayPolynomial<997, 2> { using ZPZ = aerobus::zpz<997>; using type =
POLYV<ZPZV<1>, ZPZV<995>, ZPZV<7»; }; // NOLINT
04694 template<> struct ConwayPolynomial<997, 3> { using ZPZ = aerobus::zpz<997>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<990»; }; // NOLINT
04695 template<> struct ConwayPolynomial<997, 4> { using ZPZ = aerobus::zpz<997>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<622>, ZPZV<7»; }; // NOLINT
04696 template<> struct ConwayPolynomial<997, 5> { using ZPZ = aerobus::zpz<997>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<90»; }; // NOLINT
04697 template<> struct ConwayPolynomial<997, 6> { using ZPZ = aerobus::zpz<997>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<981>, ZPZV<58>, ZPZV<260>, ZPZV<7n; }; // NOLINT 04698 template<> struct ConwayPolynomial<997, 7> { using ZPZ = aerobus::zpz<997>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<990»; };
04699 template<> struct ConwayPolynomial<997, 8> { using ZPZ = aerobus::zpz<997>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<934>, ZPZV<473>, ZPZV<241>, ZPZV<7»; }; //
         NOLINT
04700 template<> struct ConwayPolynomial<997, 9> { using ZPZ = aerobus::zpz<997>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<732>, ZPZV<616>, ZPZV<990»;
         }; // NOLINT
04701 #endif // AEROBUS_CONWAY_IMPORTS
04702
04703 #endif // __INC_AEROBUS__ // NOLINT
```

## **Chapter 7**

# **Examples**

#### 7.1 i32::template

inject a native constant

inject a native constant

**Template Parameters** 

x | inject\_constant\_2<2> -> i32::template val<2>

#### 7.2 i64::template

injects constant as an i64 value

injects constant as an i64 value

**Template Parameters** 

x inject\_constant\_t<2>

#### 7.3 polynomial

makes the constant (native type) polynomial a\_0

makes the constant (native type) polynomial a\_0

**Template Parameters** 

x <i32>::template inject\_constant\_t<2>

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## 7.4 PI\_fraction::val

representation of PI as a continued fraction -> 3.14...

## 7.5 E\_fraction::val

approximation of e -> 2.718...

approximation of e -> 2.718...

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