Aerobus

v1.2

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Chapter 1

Concept Index

1.1 Concepts

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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 >::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 >::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 >::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

Public Types

```
• using inner_type = int64_t
     type for actual values
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 lt_t = typename lt< 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	

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::va	

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
<i>v2</i> : an		: 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 >::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 >::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

static constexpr bool value = internal::_is_prime<n, 5>::value
 true iff n is prime

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 > 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 >, 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>
requires IsEuclideanDomain<Ring>
struct aerobus::polynomial< Ring >
```

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

adds two polynomials

Template Parameters

v1	
v2	

5.12.2.2 derive t

```
template<typename Ring >
template<typename v >
using aerobus::polynomial< Ring >::derive_t = typename derive_helper<v>::type
```

derivation operator

Template Parameters



5.12.2.3 div_t

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

division operator

Template Parameters

v1	
v2	

5.12.2.4 eq t

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

equality operator

Template Parameters

v1	
v2	

5.12.2.5 gcd_t

template<typename Ring >

```
template<typename v1 , typename v2 >
using aerobus::polynomial< Ring >::gcd_t = std::conditional_t< Ring::is_euclidean_domain,
typename make_unit<gcd_t<polynomial<Ring>, v1, v2> >::type, void>
```

greatest common divisor of two polynomials

Template Parameters

v1	
v2	

5.12.2.6 gt_t

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

strict greater operator

Template Parameters

v1	
v2	

5.12.2.7 lt_t

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

strict less operator

Template Parameters

v1	
v2	

5.12.2.8 mod_t

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

modulo operator

v.1	
VI	
v2	

5.12.2.9 monomial_t

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

monomial : coeff X^deg

Template Parameters

coeff	
deg	

5.12.2.10 mul_t

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

multiplication of two polynomials

Template Parameters

v1	
v2	

5.12.2.11 pos_t

```
template<typename Ring >
template<typename v >
using aerobus::polynomial< Ring >::pos_t = typename Ring::template pos_t<typename v::aN>
```

checks for positivity (an > 0)

Template Parameters



5.12.2.12 simplify_t

```
template<typename Ring >
template<typename P >
using aerobus::polynomial< Ring >::simplify_t = typename simplify<P>::type
```

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

Template Parameters

P	
---	--

5.12.2.13 sub_t

```
template<typename Ring >
template<typename v1 , typename v2 >
using aerobus::polynomial< Ring >::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

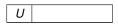


5.16.2.2 concat

```
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

 $\bullet \ \ \text{template}{<} \text{typename T} >$ 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 ring_type = i32
        Enclosing ring type.

    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

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
 actual value

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()

cast value in valueRing

Template Parameters

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

5.19.2.2 get()

```
template<int64_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 >::val < coeffN, coeffs > Struct Template Reference

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

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

Public Types

```
using ring_type = polynomial < Ring >
```

enclosing ring type

• using aN = coeffN

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

• template<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>
template<typename coeffN, typename... coeffs>
struct aerobus::polynomial< Ring >::val< coeffN, coeffs >
```

values (seen as types) in polynomial ring

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 >
template<typename coeffN , typename... coeffs>
template<size_t index>
using aerobus::polynomial< Ring >::val< coeffN, coeffs >::coeff_at_t = typename coeff_\to 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)

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5.20.3.2 to_string()

```
template<typename Ring >
template<typename coeffN , typename... coeffs>
static std::string aerobus::polynomial< Ring >::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< p>::val< x> Struct Template Reference

Public Types

```
    using ring_type = zpz
        enclosing ring type
    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
 actual value

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

· src/aerobus.h

5.23 aerobus::polynomial< Ring >::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 ring_type = polynomial < Ring >
        enclosing ring type
    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
        degree
    static constexpr bool is_zero_v = is_zero_t::value
```

5.23.1 Detailed Description

```
template<typename Ring>
template<typename coeffN>
struct aerobus::polynomial< Ring >::val< coeffN >
specialization for constants
```

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Template Parameters

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)
```

Static Public Attributes

```
    static constexpr bool is_field = is_prime::value
    static constexpr bool is_euclidean_domain = true
    template<typename v1 , typename v2 >
        static constexpr bool gt_v = gt_t<v1, v2>::value
            strictly greater operator (booleanvalue)
    template<typename v1 , typename v2 >
        static constexpr bool lt_v = lt_t<v1, v2>::value
            strictly smaller operator (booleanvalue)
    template<typename v1 , typename v2 >
        static constexpr bool eq_v = eq_t<v1, v2>::value
            equality operator (booleanvalue)
    template<typename v >
            static constexpr bool pos_v = pos_t<v>::value
            positivity operator (boolean value)
```

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

40 Class Documentation

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 } // namespace aerobus
00042
00043 // concepts
00044 namespace aerobus {
       template <typename R>
00047
          concept IsRing = requires {
00048
               typename R::one;
00049
               typename R::zero;
00050
               typename R::template add_t<typename R::one, typename R::one>;
00051
              typename R::template sub_t<typename R::one, typename R::one>;
               typename R::template mul_t<typename R::one, typename R::one>;
00052
00053
00054
00056
          template <typename R>
00057
          concept IsEuclideanDomain = IsRing<R> && requires {
              typename R::template div_t<typename R::one, typename R::one>;
00058
               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>;
00060
00061
00062
              typename R::template pos_t<typename R::one>;
00063
00064
              R::template pos v<tvpename R::one> == true;
00065
               // typename R::template gt_t<typename R::one, typename R::zero>;
              R::is_euclidean_domain == true;
```

```
00067
          };
00068
00070
           template<typename R>
          concept IsField = IsEuclideanDomain<R> && requires {
   R::is_field == true;
00071
00072
00073
00074 } // namespace aerobus
00075
00076 // utilities
00077 namespace aerobus {
00078
          namespace internal {
00079
               template<template<typename...> typename TT, typename T>
00080
               struct is_instantiation_of : std::false_type { };
00081
00082
               template<template<typename...> typename TT, typename... Ts>
00083
               struct is_instantiation_of<TT, TT<Ts...» : std::true_type { };</pre>
00084
00085
               template<template<typename ...> typename TT, typename T>
inline constexpr bool is_instantiation_of_v = is_instantiation_of<TT, T>::value;
00086
00087
00088
               template <int64_t i, typename T, typename... Ts>
00089
               struct type_at {
                static_assert(i < sizeof...(Ts) + 1, "index out of range");
using type = typename type_at<i - 1, Ts...>::type;
00090
00091
00092
               };
00093
00094
               template <typename T, typename... Ts> struct type_at<0, T, Ts...> {
00095
                   using type = T;
00096
00097
00098
               template <size_t i, typename... Ts>
00099
               using type_at_t = typename type_at<i, Ts...>::type;
00100
00101
00102
               template<int32_t n, int32_t i, typename E = void>
00103
               struct _is_prime {};
00104
               template<int32_t i>
00106
               struct _is_prime<1, i> {
00107
                  static constexpr bool value = false;
00108
00109
00110
               template<int32 t i>
00111
               struct _is_prime<2, i> {
                   static constexpr bool value = true;
00112
00113
00114
00115
               template<int32_t i>
               struct _is_prime<3, i> {
00116
00117
                   static constexpr bool value = true;
00118
00119
00120
               template < int32_t i >
00121
               struct _is_prime<5, i> {
                   static constexpr bool value = true;
00122
00123
               };
00125
               template<int32_t i>
00126
               struct _is_prime<7, i> {
00127
                   static constexpr bool value = true;
00128
00129
00130
               template<int32_t n, int32_t i>
00131
               struct _is_prime<n, i, std::enable_if_t<(n != 2 && n % 2 == 0)» {
00132
                   static constexpr bool value = false;
00133
00134
               template<int32_t n, int32_t i>
struct _is_prime<n, i, std::enable_if_t<(n != 2 && n != 3 && n % 2 != 0 && n % 3 == 0)» {</pre>
00135
00136
00137
                   static constexpr bool value = false;
00138
00139
               template<int32_t n, int32_t i> struct _is_prime<n, i, std::enable_if_t<(n >= 9 && i * i > n)>> {
00140
00141
00142
                   static constexpr bool value = true;
00143
00144
00145
               template<int32_t n, int32_t i>
00146
               struct _is_prime<n, i, std::enable_if_t<(
00147
                   n % i == 0 &&
                   n >= 9 &&
00148
                   n % 3 != 0 &&
00149
00150
                   n % 2 != 0 &&
00151
                   i * i > n)» {
00152
                   static constexpr bool value = true;
00153
               };
00154
```

```
template<int32_t n, int32_t i>
              struct _is_prime<n, i, std::enable_if_t<(
    n % (i+2) == 0 &&
00156
00157
00158
                  n >= 9 &&
00159
                  n % 3 != 0 &&
                  n % 2 != 0 &&
00160
                   i * i <= n) » {
00161
00162
                   static constexpr bool value = true;
00163
00164
              template<int32_t n, int32_t i>
00165
00166
              struct _is_prime<n, i, std::enable_if_t<( n % (i+2) != 0 &&
00167
00168
                       n % i != 0 &&
00169
                       n >= 9 &&
                       n % 3 != 0 &&
n % 2 != 0 &&
00170
00171
00172
                       (i * i <= n)) > {
00173
                   static constexpr bool value = _is_prime<n, i+6>::value;
00174
              };
00175
00176
          } // namespace internal
00177
00180
          template<int32 t n>
00181
          struct is_prime {
00183
             static constexpr bool value = internal::_is_prime<n, 5>::value;
00184
00185
00186
          template<int32_t n>
00187
          static constexpr bool is_prime_v = is_prime<n>::value;
00188
00189
          namespace internal {
00190
              template <std::size_t... Is>
00191
               \verb|constexpr| auto index_sequence_reverse(std::index_sequence < Is... > const \&) \\
00192
                   -> decltype(std::index_sequence<sizeof...(Is) - 1U - Is...>{});
00193
00194
              template <std::size t N>
00195
              using make_index_sequence_reverse
00196
                  = decltype(index_sequence_reverse(std::make_index_sequence<N>{}));
00197
00203
              template<typename Ring, typename E = void>
00204
              struct qcd;
00205
00206
              template<typename Ring>
              struct gcd<Ring, std::enable_if_t<Ring::is_euclidean_domain» {</pre>
00207
00208
                  template<typename A, typename B, typename E = void>
00209
                   struct gcd_helper {};
00210
00211
                   // B = 0. A > 0
                   template<typename A, typename B>
00212
                  struct gcd_helper<A, B, std::enable_if_t<
00213
00214
                       ((B::is_zero_t::value) &&
00215
                           (Ring::template gt_t<A, typename Ring::zero>::value))» {
00216
                       using type = A;
00217
                  };
00218
00219
                   // B = 0, A < 0
00220
                   template<typename A, typename B>
00221
                   struct gcd_helper<A, B, std::enable_if_t<
00222
                       ((B::is_zero_t::value) &&
                           !(Ring::template gt_t<A, typename Ring::zero>::value))» {
00223
00224
                       using type = typename Ring::template sub_t<typename Ring::zero, A>;
00225
                  };
00226
00227
                   // B != 0
00228
                   template<typename A, typename B>
00229
                   struct gcd_helper<A, B, std::enable_if_t<</pre>
00230
                       (!B::is_zero_t::value)
00231
                       » {
00232
                   private: // NOLINT
                      ^{\prime}// A / B using k = typename Ring::template div_t<A, B>;
00233
00234
00235
                       // A - (A/B)*B = A % B
                       using m = typename Ring::template sub_t<A, typename Ring::template mul_t<k, B»;</pre>
00236
00237
00238
00239
                      using type = typename gcd_helper<B, m>::type;
00240
00241
00242
                   template<typename A, typename B>
00243
                  using type = typename gcd_helper<A, B>::type;
00244
              };
00245
          } // namespace internal
00246
00249
          template<typename T, typename A, typename B>
00250
          using gcd_t = typename internal::gcd<T>::template type<A, B>;
00251
```

```
template<typename val>
00253
          requires IsEuclideanDomain<typename val::ring_type>
00254
          using abs_t = std::conditional_t<
00255
                          val::ring_type::template pos_v<val>,
00256
                           val, typename val::ring_type::template sub_t<typename val::ring_type::zero, val»;
00257 } // namespace aerobus
00259 // quotient ring by the principal ideal generated by {\tt X}
00260 namespace aerobus {
00261
          template<typename Ring, typename X>
00262
          requires IsRing<Ring>
00263
          struct Ouotient {
00264
              template <typename V>
              struct val {
00265
00266
              private: // NOLINT
00267
                  using tmp = typename Ring::template mod_t<V, X>;
00268
00269
               public:
                  using type = std::conditional_t<
00271
                      Ring::template pos_v<tmp>,
00272
00273
                       typename Ring::template sub_t<typename Ring::zero, tmp>
00274
                  >;
00275
              };
00276
00277
              using zero = val<typename Ring::zero>;
00278
              using one = val<typename Ring::one>;
00279
00280
              template<typename v1, typename v2>
00281
              using add_t = val<typename Ring::template add_t<typename v1::type, typename v2::type>>;
00282
              template<typename v1, typename v2>
00283
              using mul_t = val<typename Ring::template mul_t<typename v1::type, typename v2::type>>;
00284
              template<typename v1, typename v2>
00285
              using div_t = val<typename Ring::template div_t<typename v1::type, typename v2::type>>;
00286
              template<typename v1, typename v2>
              using mod_t = val<typename Ring::template mod_t<typename v1::type, typename v2::type>>;
00287
00288
              template<typename v1, typename v2>
              using eq_t = typename Ring::template eq_t<typename v1::type, typename v2::type>;
00290
              template<typename v1, typename v2>
00291
              static constexpr bool eq_v = Ring::template eq_t<typename v1::type, typename v2::type>::value;
00292
              template<typename v1>
00293
              using pos_t = std::true_type;
00294
00295
              template<typename v>
00296
              static constexpr bool pos_v = pos_t<v>::value;
00297
00298
              static constexpr bool is_euclidean_domain = true;
00299
00300
              template<auto x>
00301
              using inject_constant_t = val<typename Ring::template inject_constant_t<x>>;
00302
00303
              template<typename v>
00304
              using inject_ring_t = val<v>;
00305
00306 } // namespace aerobus
00307
00308 // type_list
00309 namespace aerobus {
00311
          template <typename... Ts>
00312
          struct type_list;
00313
00314
          namespace internal {
00315
              template <typename T, typename... Us>
00316
              struct pop_front_h {
00317
                  using tail = type_list<Us...>;
                  using head = T;
00318
00319
              };
00320
00321
              template <size_t index, typename L1, typename L2>
00322
              struct split_h {
00323
                  static_assert(index <= L2::length, "index ouf of bounds");</pre>
00324
                  using a = typename L2::pop_front::type;
using b = typename L2::pop_front::tail;
00325
00326
00327
                  using c = typename L1::template push_back<a>;
00328
00329
                  using head = typename split_h<index - 1, c, b>::head; using tail = typename split_h<index - 1, c, b>::tail;
00330
00331
00332
00333
00334
              template <typename L1, typename L2>
00335
              struct split_h<0, L1, L2> {
00336
                  using head = L1;
00337
                  using tail = L2;
00338
              };
00339
```

```
00340
               template <size_t index, typename L, typename T>
               struct insert_h {
00341
                   static_assert(index <= L::length, "index ouf of bounds");</pre>
00342
                  using s = typename L::template split<index>;
00343
                  using left = typename s::head;
using right = typename s::tail;
00344
00345
                   using ll = typename left::template push_back<T>;
00346
00347
                   using type = typename ll::template concat<right>;
00348
00349
00350
              template <size_t index, typename L>
              struct remove_h {
    using s = typename L::template split<index>;
00351
00352
00353
                   using left = typename s::head;
00354
                   using right = typename s::tail;
00355
                   using rr = typename right::pop_front::tail;
00356
                   using type = typename left::template concat<rr>;
00357
00358
          } // namespace internal
00359
00360
00363
          template <typename... Ts>
00364
          struct type_list {
00365
           private:
00366
              template <typename T>
00367
              struct concat_h;
00368
00369
               template <typename... Us>
00370
              struct concat_h<type_list<Us...» {</pre>
00371
                  using type = type_list<Ts..., Us...>;
00372
              };
00373
00374
           public:
00376
              static constexpr size_t length = sizeof...(Ts);
00377
00380
              template <typename T>
00381
              using push_front = type_list<T, Ts...>;
00382
00385
               template <size_t index>
00386
              using at = internal::type_at_t<index, Ts...>;
00387
00389
               struct pop_front {
00391
                  using type = typename internal::pop_front_h<Ts...>::head;
                   using tail = typename internal::pop_front_h<Ts...>::tail;
00393
00394
              };
00395
00398
              template <typename T>
00399
              using push_back = type_list<Ts..., T>;
00400
00403
               template <typename U>
00404
              using concat = typename concat_h<U>::type;
00405
00408
               template <size_t index>
00409
               struct split {
00410
                private:
00411
                  using inner = internal::split h<index, type list<>, type list<Ts...»;
00412
00413
                  using head = typename inner::head; using tail = typename inner::tail;
00414
00415
00416
00417
00421
               template <typename T, size_t index>
00422
              using insert = typename internal::insert_h<index, type_list<Ts...>, T>::type;
00423
00426
               template <size_t index>
00427
              using remove = typename internal::remove_h<index, type_list<Ts...»::type;</pre>
00428
          };
00429
00430
          template <>
00431
          struct type_list<> {
00432
              static constexpr size_t length = 0;
00433
00434
              template <typename T>
00435
              using push_front = type_list<T>;
00436
00437
               template <typename T>
00438
               using push_back = type_list<T>;
00439
00440
               template <typename U>
00441
              using concat = U;
00442
00443
               // TODO(jewave): assert index == 0
00444
               template <typename T, size_t index>
00445
              using insert = type_list<T>;
00446
00447 }
         // namespace aerobus
```

```
00448
00449 // i32
00450 namespace aerobus {
00452
        struct i32 {
             using inner_type = int32_t;
00453
              template<int32_t x>
00456
              struct val {
00459
                  using ring_type = i32;
00461
                  static constexpr int32_t v = x;
00462
00465
                  template<typename valueType>
                  static constexpr valueType get() { return static_cast<valueType>(x); }
00466
00467
00469
                  using is_zero_t = std::bool_constant<x == 0>;
00470
00472
                  static std::string to_string() {
00473
                      return std::to_string(x);
00474
00475
00478
                  template<typename valueRing>
00479
                  static constexpr valueRing eval(const valueRing& v) {
00480
                      return static_cast<valueRing>(x);
00481
00482
              };
00483
00485
              using zero = val<0>;
00487
              using one = val<1>;
00489
              static constexpr bool is_field = false;
00491
              static constexpr bool is_euclidean_domain = true;
00495
              template<auto x>
00496
              using inject constant t = val<static cast<int32 t>(x)>;
00497
00498
              template<typename v>
00499
              using inject_ring_t = v;
00500
00501
           private:
              template<typename v1, typename v2>
00502
              struct add {
00504
                 using type = val<v1::v + v2::v>;
00505
00506
              template<typename v1, typename v2>
00507
00508
              struct sub {
00509
                  using type = val<v1::v - v2::v>;
00510
00511
00512
              template<typename v1, typename v2>
              struct mul {
00513
                 using type = val<v1::v* v2::v>;
00514
00515
00516
00517
              template<typename v1, typename v2>
00518
              struct div {
00519
                 using type = val<v1::v / v2::v>;
00520
00521
00522
              template<typename v1, typename v2>
00523
              struct remainder {
00524
                  using type = val<v1::v % v2::v>;
00525
00526
              template<typename v1, typename v2>
00527
00528
              struct qt {
00529
                 using type = std::conditional_t<(v1::v > v2::v), std::true_type, std::false_type>;
00530
00531
00532
              template<typename v1, typename v2>
00533
              struct lt {
                  using type = std::conditional_t<(v1::v < v2::v), std::true_type, std::false_type>;
00534
00535
00536
00537
              template<typename v1, typename v2>
00538
              struct eq {
                 using type = std::conditional_t<(v1::v == v2::v), std::true_type, std::false_type>;
00539
00540
00541
00542
              template<typename v1>
00543
              struct pos {
00544
                  using type = std::bool_constant<(v1::v > 0)>;
00545
              }:
00546
00547
           public:
00549
              template<typename v1, typename v2>
00550
              using add_t = typename add<v1, v2>::type;
00551
00553
              template<typename v1, typename v2>
00554
              using sub t = typename sub<v1, v2>::type;
```

```
00557
              template<typename v1, typename v2>
00558
              using mul_t = typename mul<v1, v2>::type;
00559
00561
              template<typename v1, typename v2>
00562
              using div t = typename div<v1, v2>::type;
00563
00565
              template<typename v1, typename v2>
00566
              using mod_t = typename remainder<v1, v2>::type;
00567
00569
              template<typename v1, typename v2>
00570
              using gt_t = typename gt<v1, v2>::type;
00571
00573
              template<typename v1, typename v2>
00574
              using lt_t = typename lt<v1, v2>::type;
00575
00577
              template<typename v1, typename v2>
00578
              using eq_t = typename eq<v1, v2>::type;
00583
              template<typename v1, typename v2>
00584
              static constexpr bool eq_v = eq_t<v1, v2>::value;
00585
00587
              template<typename v1, typename v2> \,
              using gcd_t = gcd_t < i32, v1, v2>;
00588
00589
00591
              template<typename v>
00592
              using pos_t = typename pos<v>::type;
00593
00596
              template < typename v >
00597
              static constexpr bool pos_v = pos_t<v>::value;
00598
          };
00599 } // namespace aerobus
00600
00601 // i64
00602 namespace aerobus {
00604
         struct i64 {
             using inner_type = int64_t;
00606
              template<int64_t x>
00610
              struct val {
00612
                 using ring_type = i64;
00614
                  static constexpr int64_t v = x;
00615
00618
                 template<typename valueType>
00619
                 static constexpr valueType get() { return static_cast<valueType>(x); }
00620
00622
                  using is_zero_t = std::bool_constant<x == 0>;
00623
00625
                  static std::string to_string() {
00626
                      return std::to_string(x);
00627
00628
00631
                  template<typename valueRing>
00632
                  static constexpr valueRing eval(const valueRing& v) {
00633
                      return static_cast<valueRing>(x);
00634
00635
              };
00636
00640
              template<auto x>
              using inject_constant_t = val<static_cast<int64_t>(x)>;
00641
00642
              template<typename v>
00643
00644
              using inject_ring_t = v;
00645
00647
              using zero = val<0>;
00649
              using one = val<1>;
00651
              static constexpr bool is_field = false;
00653
              static constexpr bool is_euclidean_domain = true;
00654
00655
              template<typename v1, typename v2>
00657
              struct add {
00658
                  using type = val<v1::v + v2::v>;
00659
              };
00660
              template<typename v1, typename v2>
00661
00662
              struct sub {
                 using type = val<v1::v - v2::v>;
00663
00664
00665
00666
              template<typename v1, typename v2>
00667
              struct mul {
00668
                  using type = val<v1::v* v2::v>;
00669
00670
00671
              template<typename v1, typename v2> ^{\circ}
00672
              struct div {
00673
                  using type = val<v1::v / v2::v>;
```

```
00674
              };
00675
00676
              template<typename v1, typename v2>
00677
              struct remainder {
                 using type = val<v1::v% v2::v>;
00678
00679
00680
00681
              template<typename v1, typename v2>
00682
                  using type = std::conditional_t<(v1::v > v2::v), std::true_type, std::false_type>;
00683
00684
00685
00686
              template<typename v1, typename v2>
00687
00688
                 using type = std::conditional_t<(v1::v < v2::v), std::true_type, std::false_type>;
00689
00690
00691
              template<typename v1, typename v2>
00692
              struct eq {
00693
                 using type = std::conditional_t<(v1::v == v2::v), std::true_type, std::false_type>;
00694
00695
00696
              template<typename v>
00697
              struct pos {
00698
                 using type = std::bool_constant<(v::v > 0)>;
00699
00700
           public:
00701
00705
              template<typename v1, typename v2>
00706
              using add_t = typename add<v1, v2>::type;
00707
00711
              template<typename v1, typename v2>
00712
              using sub_t = typename sub<v1, v2>::type;
00713
00717
              template<typename v1, typename v2>
00718
              using mul_t = typename mul<v1, v2>::type;
00719
00723
              template<typename v1, typename v2>
00724
              using div_t = typename div<v1, v2>::type;
00725
00729
              template<typename v1, typename v2>
00730
              using mod_t = typename remainder<v1, v2>::type;
00731
00735
              template<typename v1, typename v2>
00736
              using gt_t = typename gt<v1, v2>::type;
00737
00741
              template<typename v1, typename v2>
00742
              static constexpr bool gt_v = gt_t<v1, v2>::value;
00743
00747
              template<typename v1, typename v2>
00748
              using lt_t = typename lt<v1, v2>::type;
00749
00753
              template<typename v1, typename v2>
00754
              static constexpr bool lt_v = lt_t<v1, v2>::value;
00755
00759
              template<typename v1, typename v2>
00760
              using eq_t = typename eq<v1, v2>::type;
00761
00765
              template<typename v1, typename v2>
00766
              static constexpr bool eq_v = eq_t<v1, v2>::value;
00767
00771
              template<typename v1, typename v2>
00772
              using gcd_t = gcd_t<i64, v1, v2>;
00773
00776
              template<typename v>
00777
              using pos_t = typename pos<v>::type;
00778
00781
              template<tvpename v>
00782
              static constexpr bool pos_v = pos_t<v>::value;
00783
00784 } // namespace aerobus
00785
00786 // z/pz
00787 namespace aerobus {
00792
         template<int32_t p>
00793
          struct zpz {
00794
             using inner_type = int32_t;
00795
              template<int32_t x>
00796
              struct val {
00798
                 using ring type = zpz;
00800
                 static constexpr int32_t v = x % p;
00801
00802
                 template<typename valueType>
00803
                  static constexpr valueType get() { return static_cast<valueType>(x % p); }
00804
                  using is_zero_t = std::bool_constant<x% p == 0>;
00805
00806
                  static std::string to_string() {
```

```
return std::to_string(x % p);
00808
00809
00810
                  template<typename valueRing>
                  static constexpr valueRing eval(const valueRing& v) {
   return static_cast<valueRing>(x % p);
00811
00812
00814
00815
00816
              template<auto x>
              using inject_constant_t = val<static_cast<int32_t>(x)>;
00817
00818
00819
              using zero = val<0>;
00820
              using one = val<1>;
00821
               static constexpr bool is_field = is_prime::value;
00822
              static constexpr bool is_euclidean_domain = true;
00823
00824
           private:
00825
              template<typename v1, typename v2>
00826
               struct add {
                  using type = val<(v1::v + v2::v) % p>;
00827
00828
00829
              template<typename v1, typename v2> ^{\circ}
00830
00831
              struct sub {
                 using type = val<(v1::v - v2::v) % p>;
00832
00833
00834
00835
              template<typename v1, typename v2>
00836
              struct mul {
                  using type = val<(v1::v* v2::v) % p>;
00837
00838
00839
00840
               template<typename v1, typename v2>
00841
              struct div {
                  using type = val<(v1::v% p) / (v2::v % p)>;
00842
00843
              };
00845
              template<typename v1, typename v2>
00846
              struct remainder {
00847
                  using type = val<(v1::v% v2::v) % p>;
00848
              };
00849
00850
              template<typename v1, typename v2>
00851
              struct gt {
00852
                  using type = std::conditional_t<(v1::v% p > v2::v% p), std::true_type, std::false_type>;
00853
00854
              template<typename v1, typename v2>
00855
00856
              struct lt {
00857
                  using type = std::conditional_t<(v1::v% p < v2::v% p), std::true_type, std::false_type>;
00858
00859
00860
              template<typename v1, typename v2>
00861
              struct eq {
00862
                  using type = std::conditional_t<(v1::v% p == v2::v % p), std::true_type, std::false_type>;
00863
00864
00865
              template<typename v1>
00866
               struct pos {
00867
                  using type = std::bool_constant<(v1::v > 0)>;
00868
              };
00869
00870
00872
               template<typename v1, typename v2>
00873
              using add_t = typename add<v1, v2>::type;
00874
00876
              template<typename v1, typename v2>
00877
              using sub t = typename sub<v1, v2>::type;
00878
00880
               template<typename v1, typename v2>
00881
              using mul_t = typename mul<v1, v2>::type;
00882
00884
               template<typename v1, typename v2>
00885
              using div_t = typename div<v1, v2>::type;
00886
00888
               template<typename v1, typename v2>
00889
               using mod_t = typename remainder<v1, v2>::type;
00890
00892
               template<typename v1, typename v2>
00893
              using gt_t = typename gt<v1, v2>::type;
00894
00896
               template<typename v1, typename v2>
00897
               static constexpr bool gt_v = gt_t<v1, v2>::value;
00898
              template<typename v1, typename v2>
using lt_t = typename lt<v1, v2>::type;
00900
00901
```

```
template<typename v1, typename v2>
static constexpr bool lt_v = lt_t<v1, v2>::value;
00904
00905
00906
00908
               template<typename v1, typename v2>
00909
               using eq_t = typename eq<v1, v2>::type;
00910
00912
               template<typename v1, typename v2>
00913
               static constexpr bool eq_v = eq_t<v1, v2>::value;
00914
              template<typename v1, typename v2>
using gcd_t = gcd_t<i32, v1, v2>;
00916
00917
00918
00920
               template<typename v1>
00921
               using pos_t = typename pos<v1>::type;
00922
00924
               template<tvpename v>
00925
              static constexpr bool pos_v = pos_t<v>::value;
00926
          };
00927 } // namespace aerobus
00928
00929 // polynomial
00930 namespace aerobus {
          // coeffN x^N + ...
template<typename Ring>
00931
00936
          requires IsEuclideanDomain<Ring>
00937
00938
          struct polynomial {
00939
              static constexpr bool is_field = false;
               static constexpr bool is_euclidean_domain = Ring::is_euclidean_domain;
00940
00941
00945
               template<typename coeffN, typename... coeffs>
00946
               struct val {
00948
                  using ring_type = polynomial<Ring>;
00950
                   static constexpr size_t degree = sizeof...(coeffs);
00952
                   using aN = coeffN;
00954
                   using strip = val<coeffs...>;
00956
                   using is_zero_t = std::bool_constant<(degree == 0) && (aN::is_zero_t::value)>;
00958
                   static constexpr bool is_zero_v = is_zero_t::value;
00959
00960
                private:
00961
                   template<size_t index, typename E = void>
00962
                   struct coeff_at {};
00963
00964
                   template<size_t index>
00965
                   struct coeff_at<index, std::enable_if_t<(index >= 0 && index <= sizeof...(coeffs))» {</pre>
00966
                       using type = internal::type_at_t<sizeof...(coeffs) - index, coeffN, coeffs...>;
00967
00968
00969
                   template<size t index>
00970
                   struct coeff_at<index, std::enable_if_t<(index < 0 || index > sizeof...(coeffs))» {
00971
                       using type = typename Ring::zero;
00972
00973
00974
                public:
00977
                   template<size_t index>
00978
                   using coeff_at_t = typename coeff_at<index>::type;
00979
00982
                   static std::string to_string() {
00983
                       return string_helper<coeffN, coeffs...>::func();
00984
00985
00990
                   template<typename valueRing>
00991
                   static constexpr valueRing eval(const valueRing& x) {
                      return horner_evaluation<valueRing, val>
::template inner<0, degree + 1>
00992
00993
00994
                                ::func(static_cast<valueRing>(0), x);
00995
00996
               };
00997
01000
               template<typename coeffN>
               struct val<coeffN> {
    using ring_type = polynomial<Ring>;
01001
01003
                   static constexpr size_t degree = 0;
01005
01006
                   using aN = coeffN;
01007
                   using strip = val<coeffN>;
01008
                   using is_zero_t = std::bool_constant<aN::is_zero_t::value>;
01009
01010
                   static constexpr bool is_zero_v = is_zero_t::value;
01011
                   template<size_t index, typename E = void>
01012
01013
                   struct coeff at {};
                   template<size_t index>
01015
01016
                   struct coeff_at<index, std::enable_if_t<(index == 0)» {</pre>
01017
                       using type = aN;
01018
                   };
01019
```

```
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
           private:
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
                  Р2,
01056
01057
                  internal::make_index_sequence_reverse<
01058
                  std::max(P1::degree, P2::degree) + 1
01059
                  »::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
                          v1.
01072
                           internal::make_index_sequence_reverse<
01074
                          v1::degree + v2::degree + 1
01075
                          »::type;
01076
              } ;
01077
01078
              template<typename coeff, size t deg>
              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<typename v>
              struct derive_helper<v, std::enable_if_t<v::degree != 0» {</pre>
01090
01091
                  using type = typename add<
01092
                      typename derive_helper<typename simplify<typename v::strip>::type>::type,
01093
                       typename monomial<
01094
                           typename Ring::template mul_t<
01095
                               typename v::aN,
                               typename Ring::template inject_constant_t<(v::degree)>
01096
01097
01098
                          v::degree - 1
01099
                      >::type
01100
                  >::type;
01101
              };
01102
              template<typename v1, typename v2, typename E = void>
01103
01104
              struct eq_helper {};
01105
01106
              template<typename v1, typename v2>
01107
              \verb|struct eq_helper<v1, v2, std::enable_if_t<v1::degree != v2::degree> {| |
01108
                  using type = std::false_type;
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
01125
               template<typename v1, typename v2>
               struct eq_helper<v1, v2, std::enable_if_t<
   v1::degree == v2::degree &&</pre>
01126
01127
                    (v1::degree != 0 || v2::degree != 0) &&
01128
01129
                    std::is_same<
01130
                    typename Ring::template eq_t<typename v1::aN, typename v2::aN>,
01131
                    std::true_type
01132
                    >::value
01133
               » {
                    using type = typename eq_helper<typename v1::strip, typename v2::strip>::type;
01134
01135
01136
               template<typename v1, typename v2>
struct eq_helper<v1, v2, std::enable_if_t<
    v1::degree == v2::degree &&</pre>
01137
01138
01139
01140
                    (v1::degree == 0)
01141
               » {
01142
                    using type = typename Ring::template eq_t<typename v1::aN, typename v2::aN>;
01143
               } ;
01144
               template<typename v1, typename v2, typename E = void>
01145
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>
01150
                    using type = std::true_type;
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>
01159
               struct lt_helper<v1, v2, std::enable_if_t<(v1::degree > v2::degree)» {
01160
                   using type = std::false_type;
01161
01162
01163
               template<typename v1, typename v2, typename E = void>
01164
               struct gt_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
               template<typename v1, typename v2>
struct gt_helper<v1, v2, std::enable_if_t<(v1::degree == v2::degree)» {</pre>
01171
01172
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)» {</pre>
01177
                    using type = std::false_type;
01178
01180
               \ensuremath{//} when high power is zero : strip
01181
01182
               template<typename P>
01183
               struct simplify<P, std::enable_if_t<
01184
                    std::is same<
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<</pre>
01195
                    !std::is_same<
01196
                    typename Ring::zero.
```

```
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 {
                  using type =
01212
01213
                      typename Ring::template add_t<</pre>
                          typename P1::template coeff at t<index>,
01214
                          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>
              struct add_low<P1, P2, std::index_sequence<I...» {
01222
01223
                  using type = val<add_at_t<P1, P2, I>...>;
01224
01225
01226
              // substraction at
01227
              template<typename P1, typename P2, size_t index>
01228
              struct sub_at {
01229
                  using type =
01230
                      typename Ring::template sub_t<</pre>
01231
                          typename P1::template coeff_at_t<index>
                          typename P2::template coeff_at_t<index>>;
01232
01233
              };
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...» {</pre>
01239
                  using type = val<sub_at_t<P1, P2, I>...>;
01240
01241
01242
01243
              template<typename P1, typename P2>
01244
              struct sub {
01245
                  using type = typename simplify<typename sub_low<
01246
                  Р1.
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<
typename v1::template coeff_at_t<index>,
01257
01258
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<
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
01274
01275
              template<typename v1, typename v2, size_t k>
              struct mul_at<v1, v2, k, std::enable_if_t<(k < 0) || (k > v1::degree + v2::degree)» {
    using type = typename Ring::zero;
01276
01277
01278
01279
01280
              template<typename v1, typename v2, size_t k>
01281
              01282
                  using type = typename mul_at_loop_helper<v1, v2, k, 0, k>::type;
01283
              };
```

```
01284
              template<typename P1, typename P2, size_t index>
01285
01286
              using mul_at_t = typename mul_at<P1, P2, index>::type;
01287
01288
              template<typename P1, typename P2, std::size_t... I>
              struct mul_low<P1, P2, std::index_sequence<I...» {
01289
                  using type = val<mul_at_t<P1, P2, I>...>;
01290
01291
01292
01293
              // division helper
01294
              template< typename A, typename B, typename Q, typename R, typename E = void>
01295
              struct div_helper {};
01296
01297
               template<typename A, typename B, typename Q, typename R>
01298
              struct div_helper<A, B, Q, R, std::enable_if_t<
01299
                   (R::degree < B::degree) ||
                   (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<
    (R::degree >= B::degree) &&
01307
01308
                   !(R::degree == 0 && std::is_same<typename R::aN, typename Ring::zero>::value)» {
01309
01310
               private: // NOLINT
01311
                  using rN = typename R::aN;
01312
                  using bN = typename B::aN;
                  using pT = typename monomial<typename Ring::template div_t<rN, bN>, R::degree -
01313
     B::degree>::tvpe;
01314
                  using rr = typename sub<R, typename mul<pT, B>::type>::type;
01315
                  using qq = typename add<Q, pT>::type;
01316
               public:
01317
                  using q_type = typename div_helper<A, B, qq, rr>::q_type;
01318
                  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 {
                 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;
01325
01326
                  using m_type = typename div_helper<A, B, zero, A>::mod_type;
01327
01328
              } ;
01329
01330
              template<typename P>
01331
              struct make unit {
01332
                  using type = typename div<P, val<typename P::aN>>::g type;
01333
              };
01334
01335
              template<typename coeff, size_t deg>
01336
              struct monomial {
                  using type = typename mul<X, typename monomial<coeff, deg - 1>::type>::type;
01337
01338
              };
01339
01340
              template<typename coeff>
01341
              struct monomial < coeff, 0 > {
01342
                  using type = val<coeff>;
01343
01344
01346
              template<typename valueRing, typename P>
              struct horner_evaluation {
01347
01348
                  template<size_t index, size_t stop>
01349
                  struct inner {
01350
                       static constexpr valueRing func(const valueRing& accum, const valueRing& x) {
                          constexpr valueRing coeff =
01351
                               static_cast<valueRing>(P::template coeff_at_t<P::degree - index>::template
01352
      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 {
01367
                  static std::string func() {
                       std::string tail = string helper<coeffs...>::func();
01368
```

```
01369
                       std::string result = "";
01370
                       if (Ring::template eq_t<coeff, typename Ring::zero>::value) {
01371
                           return tail;
01372
                       } else if (Ring::template eq_t<coeff, typename Ring::one>::value) {
01373
                          if (sizeof...(coeffs) == 1) {
   result += "x";
01374
01375
                           } else {
01376
                               result += "x^" + std::to_string(sizeof...(coeffs));
01377
01378
                       } else {
01379
                           if (sizeof...(coeffs) == 1) {
                               result += coeff::to_string() + " x";
01380
01381
                           } else {
01382
                               result += coeff::to_string()
01383
                                        + " x^" + std::to_string(sizeof...(coeffs));
01384
01385
01386
                       if (!tail.empty()) {
    result += " + " + tail;
01387
01388
01389
01390
01391
                      return result;
01392
                  }
01393
              };
01394
01395
              template<typename coeff>
01396
              struct string_helper<coeff> {
01397
                  static std::string func() {
01398
                      if (!std::is_same<coeff, typename Ring::zero>::value) {
01399
                           return coeff::to_string();
01400
                      } else {
01401
                          return "";
01402
01403
              };
01404
01405
01406
           public:
01409
              template<typename P>
01410
              using simplify_t = typename simplify<P>::type;
01411
01415
              template<typename v1, typename v2>
01416
              using add t = typename add<v1, v2>::type;
01417
              template<typename v1, typename v2>
01421
01422
              using sub_t = typename sub<v1, v2>::type;
01423
01427
              template<typename v1, typename v2>
01428
              using mul_t = typename mul<v1, v2>::type;
01429
01433
              template<typename v1, typename v2>
01434
              using eq_t = typename eq_helper<v1, v2>::type;
01435
01439
              template<typename v1, typename v2>
01440
              using lt_t = typename lt_helper<v1, v2>::type;
01441
              template<typename v1, typename v2>
01446
              using gt_t = typename gt_helper<v1, v2>::type;
01447
01451
              template<typename v1, typename v2>
01452
              using div_t = typename div<v1, v2>::q_type;
01453
01457
              template<typename v1, typename v2>
01458
              using mod_t = typename div_helper<v1, v2, zero, v1>::mod_type;
01459
01463
              template<typename coeff, size_t deg>
01464
              using monomial_t = typename monomial<coeff, deg>::type;
01465
01468
              template<tvpename v>
01469
              using derive_t = typename derive_helper<v>::type;
01470
01473
              template < typename v >
01474
              using pos_t = typename Ring::template pos_t<typename v::aN>;
01475
01476
              template<typename v>
01477
              static constexpr bool pos_v = pos_t<v>::value;
01478
              template<typename v1, typename v2>
01482
              using gcd_t = std::conditional_t<
01483
01484
                  Ring::is_euclidean_domain,
01485
                  typename make_unit<gcd_t<polynomial<Ring>, v1, v2»::type,
01486
                  void>;
01487
01491
01492
              using inject_constant_t = val<typename Ring::template inject_constant_t<x>>;
01493
01497
              template<tvpename v>
```

```
using inject_ring_t = val<v>;
01499
01500 } // namespace aerobus
01501
01502 // fraction field
01503 namespace aerobus {
         namespace internal {
01505
             template<typename Ring, typename E = void>
01506
              requires IsEuclideanDomain<Ring>
01507
              struct _FractionField {};
01508
01509
             template<tvpename Ring>
              requires IsEuclideanDomain<Ring>
01510
01511
              struct _FractionField<Ring, std::enable_if_t<Ring::is_euclidean_domain» {</pre>
01513
                 static constexpr bool is_field = true;
01514
                  static constexpr bool is_euclidean_domain = true;
01515
01516
              private:
01517
                 template<typename val1, typename val2, typename E = void>
01518
                  struct to_string_helper {};
01519
01520
                  template<typename val1, typename val2>
01521
                  struct to_string_helper <val1, val2,
01522
                      std::enable if t<
01523
                      Ring::template eg t<
01524
                      val2, typename Ring::one
01525
                      >::value
01526
01527
                  > {
01528
                      static std::string func() {
01529
                          return val1::to string();
01530
01531
                  };
01532
01533
                  template<typename val1, typename val2>
01534
                  struct to_string_helper<val1, val2,
01535
                      std::enable if t<
01536
                      !Ring::template eq_t<
01537
                      val2.
01538
                      typename Ring::one
01539
                      >::value
01540
01541
                  > {
01542
                      static std::string func() {
01543
                         return "(" + val1::to_string() + ") / (" + val2::to_string() + ")";
01544
01545
                  };
01546
01547
               public:
01551
                 template<typename val1, typename val2>
01552
                  struct val {
01554
                      using x = val1;
01556
                      using y = val2;
01558
                      using is_zero_t = typename val1::is_zero_t;
                      static constexpr bool is_zero_v = val1::is_zero_t::value;
01560
01561
01563
                      using ring_type = Ring;
01564
                      using field_type = _FractionField<Ring>;
01565
01568
                       static constexpr bool is_integer = std::is_same_v<val2, typename Ring::one>;
01569
01573
                     template<typename valueType>
01574
                      static constexpr valueType get() { return static_cast<valueType>(x::v) /
     static_cast<valueType>(y::v); }
01575
01578
                      static std::string to_string() {
                          return to_string_helper<val1, val2>::func();
01579
01580
01581
                      template<typename valueRing>
01587
                      static constexpr valueRing eval(const valueRing& v) {
01588
                          return x::eval(v) / y::eval(v);
01589
01590
                  };
01591
01593
                  using zero = val<typename Ring::zero, typename Ring::one>;
01595
                  using one = val<typename Ring::one, typename Ring::one>;
01596
01599
                  template<typename v>
                 using inject_t = val<v, typename Ring::one>;
01600
01601
01604
                  template<auto x>
                  using inject_constant_t = val<typename Ring::template inject_constant_t<x>, typename
01605
     Ring::one>;
01606
01609
                  template<typename v>
01610
                  using inject ring t = val<tvpename Ring::template inject ring t<v>, typename Ring::one>;
```

```
using ring_type = Ring;
01613
01614
               private:
01615
                  template<typename v, typename E = void>
01616
01617
                  struct simplify {}:
01618
01619
01620
                  template<typename v>
01621
                  struct simplify<v, std::enable_if_t<v::x::is_zero_t::value» {</pre>
                      using type = typename _FractionField<Ring>::zero;
01622
01623
01624
01625
                  // x != 0
01626
                  template<typename v>
01627
                  struct simplify<v, std::enable_if_t<!v::x::is_zero_t::value» {</pre>
                   private:
01628
01629
                      using _gcd = typename Ring::template gcd_t<typename v::x, typename v::y>;
                      using newx = typename Ring::template div_t<typename v::x, _gcd>;
01630
01631
                      using newy = typename Ring::template div_t<typename v::y, _gcd>;
01632
01633
                      using posx = std::conditional_t<
01634
                                           !Ring::template pos_v<newy>,
01635
                                           typename Ring::template sub_t<typename Ring::zero, newx>,
01636
                                           newx>;
01637
                      using posy = std::conditional_t<
                                           !Ring::template pos_v<newy>,
01638
01639
                                           typename Ring::template sub_t<typename Ring::zero, newy>,
01640
                                           newy>;
01641
                   public:
01642
                      using type = typename _FractionField<Ring>::template val<posx, posy>;
01643
                  }:
01644
01645
               public:
01648
                  template<typename v>
01649
                  using simplify_t = typename simplify<v>::type;
01650
01651
01652
                  template<typename v1, typename v2>
01653
                  struct add {
                   private:
01654
01655
                      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>;
01656
01657
                      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
                   public:
01661
                      using type = typename _FractionField<Ring>::template simplify_t<val<dividend,
01662
     diviser»;
01663
                  };
01664
01665
                  template<typename v>
01666
                  struct pos {
                      using type = std::conditional t<
01667
                          (Ring::template pos_v<typename v::x> && Ring::template pos_v<typename v::y>) ||
01668
                          (!Ring::template pos_v<typename v::x> && !Ring::template pos_v<typename v::y>),
01669
01670
                          std::true_type,
01671
                          std::false_type>;
01672
                  };
01673
01674
                  template<typename v1, typename v2>
01675
                  struct sub {
01676
                   private:
01677
                      using a = typename Ring::template mul_t<typename v1::x, typename v2::y>;
01678
                      using b = typename Ring::template mul_t<typename v1::y, typename v2::x>;
01679
                      using dividend = typename Ring::template sub_t<a, b>;
01680
                      using diviser = typename Ring::template mul_t<typename v1::y, typename v2::y>;
01681
                      using q = typename Ring::template gcd_t<dividend, diviser>;
01682
01683
                   public:
01684
                      using type = typename _FractionField<Ring>::template simplify_t<val<dividend,
     diviser»;
01685
01686
01687
                  template<typename v1, typename v2>
01688
01689
                   private:
01690
                      using a = typename Ring::template mul_t<typename v1::x, typename v2::x>;
                      using b = typename Ring::template mul_t<typename v1::y, typename v2::y>;
01691
01692
01693
                   public:
                      using type = typename _FractionField<Ring>::template simplify_t<val<a, b>;
01694
01695
01696
01697
                  template<typename v1, typename v2, typename E = void>
01698
                  struct div {};
```

```
01699
01700
                  template<typename v1, typename v2>
01701
                   struct div<v1, v2, std::enable_if_t<!std::is_same<v2, typename
      _FractionField<Ring>::zero>::value» {
01702
                   private:
01703
                      using a = typename Ring::template mul_t<typename v1::x, typename v2::y>;
01704
                       using b = typename Ring::template mul_t<typename v1::y, typename v2::x>;
01705
                   public:
01706
01707
                      using type = typename _FractionField<Ring>::template simplify_t<val<a, b>;
01708
                  };
01709
01710
                  template<typename v1, typename v2>
01711
                  struct div<v1, v2, std::enable_if_t<
01712
                      std::is_same<zero, v1>::value && std::is_same<v2, zero>::value» {
01713
                       using type = one;
01714
                  };
01715
                  template<typename v1, typename v2>
01717
                  struct eq {
01718
                      using type = std::conditional_t<
01719
                                std::is_same<typename simplify_t<v1>::x, typename simplify_t<v2>::x>::value &&
01720
                               std::is_same<typename simplify_t<vl>::y, typename simplify_t<v2>::y>::value,
01721
                           std::true type,
01722
                           std::false_type>;
01723
                  };
01724
01725
                  template<typename TL, typename E = void>
01726
                  struct vadd {};
01727
01728
                  template<tvpename TL>
01729
                  struct vadd<TL, std::enable_if_t<(TL::length > 1)» {
01730
                      using head = typename TL::pop_front::type;
01731
                       using tail = typename TL::pop_front::tail;
                       using type = typename add<head, typename vadd<tail>::type>::type;
01732
01733
                  };
01734
01735
                   template<typename TL>
01736
                  struct vadd<TL, std::enable_if_t<(TL::length == 1)» {</pre>
01737
                      using type = typename TL::template at<0>;
01738
01739
01740
                  template<typename... vals>
01741
                  struct vmul {};
01742
                  template<typename v1, typename... vals>
01743
01744
                   struct vmul<v1, vals...> {
01745
                       using type = typename mul<v1, typename vmul<vals...>::type>::type;
01746
01747
01748
                  template<typename v1>
01749
                  struct vmul<v1> {
01750
                      using type = v1;
01751
01752
01753
01754
                  template<typename v1, typename v2, typename E = void>
01755
                  struct at:
01756
                  template<typename v1, typename v2>
struct gt<v1, v2, std::enable_if_t<</pre>
01757
01758
                       (eq<v1, v2>::type::value)
01759
01760
01761
                       using type = std::false_type;
01762
                  } ;
01763
01764
                  template<typename v1, typename v2>
                  struct gt<v1, v2, std::enable_if_t<
01765
                       (!eq<v1, v2>::type::value) &&
01766
01767
                       (!pos<v1>::type::value) && (!pos<v2>::type::value)
01768
01769
                       using type = typename gt<
01770
                          typename sub<zero, v1>::type, typename sub<zero, v2>::type
01771
                       >::type;
01772
                  };
01773
01774
                   template<typename v1, typename v2>
01775
                   struct gt<v1, v2, std::enable_if_t<
01776
                       (!eq<v1, v2>::type::value) &&
01777
                       (pos<v1>::type::value) && (!pos<v2>::type::value)
01778
01779
                       using type = std::true_type;
01780
01781
01782
                  template<typename v1, typename v2> ^{\circ}
                  struct gt<v1, v2, std::enable_if_t<
    (!eq<v1, v2>::type::value) &&
01783
01784
```

```
(!pos<v1>::type::value) && (pos<v2>::type::value)
01786
01787
                        using type = std::false_type;
01788
                   };
01789
01790
                   template<tvpename v1, tvpename v2>
01791
                   struct gt<v1, v2, std::enable_if_t<
01792
                        (!eq<v1, v2>::type::value) &&
01793
                        (pos<v1>::type::value) && (pos<v2>::type::value)
01794
01795
                        using type = typename Ring::template gt_t<
01796
                            typename Ring::template mul_t<v1::x, v2::y>,
                            typename Ring::template mul_t<v2::y, v2::x>
01797
01798
01799
                   };
01800
01801
                public:
01803
                   template<typename v1, typename v2>
01804
                   using add_t = typename add<v1, v2>::type;
                   template<typename v1, typename v2>
01806
01807
                   using mod_t = zero;
01811
                   template<typename v1, typename v2>
01812
                   using gcd_t = v1;
01815
                   template<typename... vs>
using vadd_t = typename vadd<vs...>::type;
01816
01819
                   template<typename... vs>
01820
                   using vmul_t = typename vmul<vs...>::type;
01822
                   template<typename v1, typename v2>
01823
                   using sub_t = typename sub<v1, v2>::type;
01825
                   template<typename v1, typename v2>
01826
                   using mul_t = typename mul<v1, v2>::type;
01828
                   template<typename v1, typename v2>
01829
                   using div_t = typename div<v1, v2>::type;
01831
                   template<typename v1, typename v2>
01832
                   using eq_t = typename eq<v1, v2>::type;
01834
                   template<typename v1, typename v2> \,
01835
                   static constexpr bool eq_v = eq<v1, v2>::type::value;
01837
                   template<typename v1, typename v2>
01838
                   using gt_t = typename gt<v1, v2>::type;
01840
                   template<typename v1, typename v2>
01841
                   static constexpr bool gt_v = gt<v1, v2>::type::value;
01843
                   template<typename v1>
01844
                   using pos_t = typename pos<v1>::type;
01846
                   template<typename v>
                   static constexpr bool pos_v = pos_t<v>::value;
01847
01848
               };
01849
01850
               template<typename Ring, typename E = \text{void}>
01851
               requires IsEuclideanDomain<Ring>
01852
               struct FractionFieldImpl {};
01853
01854
               // fraction field of a field is the field itself
01855
               template<typename Field>
01856
               requires IsEuclideanDomain<Field>
               struct FractionFieldImpl<Field, std::enable_if_t<Field::is_field» {</pre>
01857
                   using type = Field;
01858
                   template<typename v>
01860
                   using inject_t = v;
01861
01862
               \ensuremath{//} fraction field of a ring is the actual fraction field
01863
01864
               template<typename Ring>
01865
               requires IsEuclideanDomain<Ring>
               struct FractionFieldImpl<Ring, std::enable_if_t<!Ring::is_field» {</pre>
01866
01867
                   using type = _FractionField<Ring>;
01868
01869
          } // namespace internal
01870
01871
          template<typename Ring>
          requires IsEuclideanDomain<Ring>
01873
          using FractionField = typename internal::FractionFieldImpl<Ring>::type;
01874 }
         // namespace aerobus
01875
01876 // short names for common types
01877 namespace aerobus {
01879
          using q32 = FractionField<i32>;
01881
          using fpq32 = FractionField<polynomial<q32»;
01883
          using q64 = FractionField<i64>;
          using pi64 = polynomial<i64>;
using pq64 = polynomial<q64>;
using fpq64 = FractionField<polynomial<q64»;
01885
01887
01889
          template<typename Ring, typename v1, typename v2> using makefraction_t = typename FractionField<Ring>::template val<v1, v2>;
01894
01895
01896
01901
          template<typename Ring, typename v1, typename v2>
          \label{lem:constant} \mbox{using addfractions\_t = typename FractionField<Ring>::template add\_t<v1, v2>;}
01902
01907
          template<typename Ring, typename v1, typename v2>
```

```
using mulfractions_t = typename FractionField<Ring>::template mul_t<v1, v2>;
01909 } // namespace aerobus
01910
01911 // taylor series and common integers (factorial, bernouilli...) appearing in taylor coefficients
01912 namespace aerobus {
01913
          namespace internal {
             template<typename T, size_t x, typename E = void>
01914
01915
              struct factorial {};
01916
01917
              template<typename T, size_t x>
               struct factorial<T, x, std::enable_if_t<(x > 0)» {
01918
01919
              private:
01920
                   template<typename, size t, typename>
01921
                   friend struct factorial;
01922
              public:
01923
                  using type = typename T::template mul_t<typename T::template val<x>, typename factorial<T,
      x - 1>::type>;
01924
                   static constexpr typename T::inner type value = type::template get<typename
     T::inner_type>();
01925
              };
01926
01927
              template<typename T>
01928
              struct factorial<T, 0> {
01929
               public:
01930
                  using type = typename T::one;
01931
                   static constexpr typename T::inner_type value = type::template get<typename</pre>
      T::inner_type>();
01932
          } // namespace internal
01933
01934
01938
          template<typename T, size_t i>
01939
          using factorial_t = typename internal::factorial<T, i>::type;
01940
01944
          template<typename T, size_t i>
01945
          inline constexpr typename T::inner_type factorial_v = internal::factorial<T, i>::value;
01946
01947
          namespace internal {
               template<typename T, size_t k, size_t n, typename E = void>
01948
01949
               struct combination_helper {};
01950
01951
               template<typename T, size_t k, size_t n>
               struct combination_helper<br/>T, k, n, std::enable_if_t<(n >= 0 && k <= (n / 2) && k > 0)» {<br/> using type = typename FractionField<br/>T>::template mul_t<
01952
01953
                       typename combination_helper<T, k - 1, n - 1>::type,
01954
01955
                       makefraction_t<T, typename T::template val<n>, typename T::template val<k>>;
01956
              };
01957
              template<typename T, size_t k, size_t n> struct combination_helper<T, k, n, std::enable_if_t<(n >= 0 && k > (n / 2) && k > 0)» { using type = typename combination_helper<T, n - k, n>::type;
01958
01959
01960
01961
               };
01962
01963
               template<typename T, size_t n>
01964
               struct combination_helper<T, 0, n> {
                   using type = typename FractionField<T>::one;
01965
01966
              };
01967
01968
               template<typename T, size_t k, size_t n>
01969
               struct combination {
01970
                   using type = typename internal::combination_helper<T, k, n>::type::x;
01971
                   static constexpr typename T::inner_type value
01972
                                internal::combination_helper<T, k, n>::type::template get<typename
     T::inner_type>();
01973
01974
             // namespace internal
01975
01978
          template<typename T, size_t k, size_t n>
01979
          using combination_t = typename internal::combination<T, k, n>::type;
01980
01985
          template<typename T, size_t k, size_t n>
01986
          inline constexpr typename T::inner_type combination_v = internal::combination<T, k, n>::value;
01987
01988
          namespace internal {
               template<tvpename T, size t m>
01989
01990
               struct bernouilli;
01991
01992
               template<typename T, typename accum, size_t k, size_t m>
01993
               struct bernouilli_helper {
01994
                   using type = typename bernouilli_helper<
01995
01996
                       addfractions t<T,
01997
                           accum,
                           mulfractions_t<T,
01998
01999
                                makefraction_t<T,
02000
                                    combination_t<T, k, m + 1>,
02001
                                    typename T::one>
02002
                                typename bernouilli<T, k>::type
```

```
02003
02004
                      >,
k + 1,
02005
02006
                      m>::type;
02007
              };
02008
              template<typename T, typename accum, size_t m>
02010
              struct bernouilli_helper<T, accum, m, m> {
                 using type = accum;
02011
02012
02013
02014
02015
02016
              template<typename T, size_t m>
02017
              struct bernouilli {
                  02018
02019
02020
                      makefraction t<T,
02021
                       typename T::template val<static_cast<typename T::inner_type>(-1)>,
02022
                      typename T::template val<static_cast<typename T::inner_type>(m + 1)>
02023
02024
02025
02026
                  template<typename floatType>
02027
                  static constexpr floatType value = type::template get<floatType>();
02028
              };
02029
02030
              template<typename T>
02031
              struct bernouilli<T, 0> {
                  using type = typename FractionField<T>::one;
02032
02033
02034
                  template<typename floatType>
02035
                  static constexpr floatType value = type::template get<floatType>();
02036
02037
          } // namespace internal
02038
          template<typename T, size_t n>
using bernouilli_t = typename internal::bernouilli<T, n>::type;
02042
02044
02049
          template<typename FloatType, typename T, size_t n >
02050
          inline constexpr FloatType bernouilli_v = internal::bernouilli<T, n>::template value<FloatType>;
02051
02052
          namespace internal {
02053
             template<typename T, int k, typename E = void>
02054
              struct alternate {};
02055
02056
              template<typename T, int k>
02057
              struct alternate<T, k, std::enable_if_t<k % 2 == 0» {
02058
                  using type = typename T::one;
                  static constexpr typename T::inner_type value = type::template get<typename
02059
     T::inner_type>();
02060
02061
              template<typename T, int k>
struct alternate<T, k, std::enable_if_t<k % 2 != 0» {
    using type = typename T::template sub_t<typename T::zero, typename T::one>;
02062
02063
02064
                  static constexpr typename T::inner_type value = type::template get<typename
     T::inner_type>();
02066
02067
          } // namespace internal
02068
02071
          template<typename T, int k>
02072
          using alternate_t = typename internal::alternate<T, k>::type;
02073
02074
02075
              template<typename T, int n, int k, typename E = void>
02076
              struct stirling_helper {};
02077
02078
              template<tvpename T>
              struct stirling_helper<T, 0, 0> {
02080
                 using type = typename T::one;
02081
02082
              template<typename T, int n>
02083
              struct stirling_helper<T, n, 0, std::enable_if_t<(n > 0)» {
    using type = typename T::zero;
02084
02085
02086
02087
02088
              template<typename T, int n>
              struct_stirling_helper<T, 0, n, std::enable_if_t<(n > 0)» {
02089
02090
                  using type = typename T::zero;
02091
02092
02093
              template<typename T, int n, int k>
02094
              struct stirling_helper<T, n, k, std::enable_if_t<(k > 0) && (n > 0)» {
02095
                  using type = typename T::template sub_t<
                                   typename stirling_helper<T, n-1, k-1>::type,
02096
```

```
02097
                                        typename T::template mul_t<
02098
                                             typename T::template inject_constant_t<n-1>,
02099
                                             typename stirling_helper<T, n-1, k>::type
02100
02101
            } // namespace internal
02102
02103
02108
            template<typename T, int n, int k>
02109
           using stirling_signed_t = typename internal::stirling_helper<T, n, k>::type;
02110
           \label{template} $$ \ensuremath{\text{template}}$ template < typename T, int n, int k> using stirling_unsigned_t = abs_t < typename internal::stirling_helper < T, n, k>::type>; 
02115
02116
02117
02122
            template<typename T, int n, int k>
02123
           static constexpr typename T::inner_type stirling_signed_v = stirling_signed_t<T, n, k>::v;
02124
02125
02130
           template<typename T, int n, int k>
           static constexpr typename T::inner_type stirling_unsigned_v = stirling_unsigned_t<T, n, k>::v;
02131
02132
02135
            template<typename T, size_t k>
02136
           inline constexpr typename T::inner_type alternate_v = internal::alternate<T, k>::value;
02137
02138
           namespace internal {
02139
                template<typename T, auto p, auto n, typename E = void>
02140
                struct pow {};
02141
02142
                template<typename T, auto p, auto n>
                struct pow<T, p, n, std::enable_if_t<(n > 0 && n % 2 == 0)» {
02143
02144
                    using type = typename T::template mul_t<</pre>
                         typename pow<T, p, n/2>::type, typename pow<T, p, n/2>::type
02145
02146
02147
02148
                };
02149
                template<typename T, auto p, auto n>
struct pow<T, p, n, std::enable_if_t<(n % 2 == 1)» {
    using type = typename T::template mul_t</pre>
02150
02151
02152
02153
                         typename T::template inject_constant_t,
02154
                          typename T::template mul_t<
02155
                              typename pow<T, p, n/2>::type,
                              typename pow<T, p, n/2>::type
02156
02157
02158
                    >;
02159
                };
02160
02161
                template<typename T, auto p>
                struct pow<T, p, 0> { using type = typename T::one; };
02162
           } // namespace internal
02163
02164
02169
           template<typename T, auto p, auto n>
02170
           using pow_t = typename internal::pow<T, p, n>::type;
02171
           template<typename T, auto p, auto n>
static constexpr T::inner_type pow_v = internal::pow<T, p, n>::type::v;
02176
02177
02178
02179
           namespace internal {
02180
               template<typename, template<typename, size_t> typename, class>
02181
                struct make_taylor_impl;
02182
                template<typename T, template<typename, size_t> typename coeff_at, size_t... Is>
struct make_taylor_impl<T, coeff_at, std::integer_sequence<size_t, Is...» {
   using type = typename polynomial<FractionField<T>::template val<typename coeff_at<T,</pre>
02183
02184
02185
      Is>::type...>;
02186
                };
02187
           }
02188
           template<typename T, template<typename, size_t index> typename coeff_at, size_t deg>
02193
02194
           using taylor = typename internal::make_taylor_impl<
02195
                Τ,
02196
                coeff_at,
02197
                internal::make_index_sequence_reverse<deg + 1»::type;</pre>
02198
02199
           namespace internal {
02200
                template<typename T, size t i>
02201
                struct exp_coeff {
02202
                    using type = makefraction_t<T, typename T::one, factorial_t<T, i»;
02203
02204
02205
                template<typename T, size t i, typename E = void>
02206
                struct sin coeff helper {};
02207
                template<typename T, size_t i>
02208
02209
                struct sin_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {</pre>
                    using type = typename FractionField<T>::zero;
02210
02211
                };
02212
```

```
template<typename T, size_t i>
               struct sin_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {</pre>
02214
                   using type = makefraction_t<T, alternate_t<T, i / 2>, factorial_t<T, i»;</pre>
02215
02216
02217
02218
               template<typename T, size t i>
02219
              struct sin_coeff {
02220
                   using type = typename sin_coeff_helper<T, i>::type;
02221
02222
02223
               template<typename T, size_t i, typename E = void>
02224
              struct sh_coeff_helper {};
02225
02226
               template<typename T, size_t i>
02227
              struct sh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {</pre>
02228
                  using type = typename FractionField<T>::zero;
02229
              };
02230
               template<typename T, size_t i>
02232
              struct sh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {</pre>
02233
                  using type = makefraction_t<T, typename T::one, factorial_t<T, i»;
02234
02235
02236
               template<typename T, size_t i>
02237
               struct sh_coeff {
02238
                 using type = typename sh_coeff_helper<T, i>::type;
02239
02240
02241
               template<typename T, size_t i, typename E = void>
02242
               struct cos_coeff_helper {};
02243
02244
               template<typename T, size_t i>
02245
               struct cos_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {</pre>
02246
                  using type = typename FractionField<T>::zero;
02247
02248
              template<typename T, size_t i>
struct cos_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {</pre>
02249
                  using type = makefraction_t<T, alternate_t<T, i / 2>, factorial_t<T, i»;
02251
02252
02253
02254
               template<typename T, size_t i>
02255
               struct cos_coeff {
02256
                  using type = typename cos_coeff_helper<T, i>::type;
02257
02258
02259
               template<typename T, size_t i, typename E = void>
02260
               struct cosh_coeff_helper {};
02261
02262
               template<tvpename T, size t i>
02263
               struct cosh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {</pre>
02264
                  using type = typename FractionField<T>::zero;
02265
02266
               template<typename T, size_t i>
02267
               struct cosh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {</pre>
02268
                  using type = makefraction_t<T, typename T::one, factorial_t<T, i»;
02269
02270
02271
02272
               template<typename T, size_t i>
02273
               struct cosh coeff {
02274
                   using type = typename cosh_coeff_helper<T, i>::type;
02276
02277
               template<typename T, size_t i>
02278
               struct geom_coeff { using type = typename FractionField<T>::one; };
02279
02280
02281
               template<typename T, size_t i, typename E = void>
02282
              struct atan_coeff_helper;
02283
               template<typename T, size_t i>
02284
               struct atan_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {
    using type = makefraction_t<T, alternate_t<T, i / 2>, typename T::template val<i»;</pre>
02285
02286
02287
02288
02289
               template<typename T, size_t i>
02290
               struct atan_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {</pre>
02291
                   using type = typename FractionField<T>::zero;
02292
02293
02294
               template<typename T, size_t i>
02295
               struct atan_coeff { using type = typename atan_coeff_helper<T, i>::type; };
02296
02297
               template<typename T, size_t i, typename E = void>
               struct asin_coeff_helper;
02298
02299
```

```
template<typename T, size_t i>
02301
               struct asin_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {
02302
                   using type = makefraction_t<T,
                       factorial_t<T, i - 1>,
02303
02304
                       typename T::template mul_t<
02305
                           typename T::template val<i>,
02306
                           T::template mul_t<
02307
                               pow_t<T, 4, i / 2>,
02308
                               pow<T, factorial<T, i / 2>::value, 2
02309
02310
                       >
02311
                       »;
02312
              };
02313
02314
               template<typename T, size_t i>
              struct asin_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {
    using type = typename FractionField<T>::zero;
02315
02316
02317
02318
02319
              template<typename T, size_t i>
02320
              struct asin_coeff {
02321
                  using type = typename asin_coeff_helper<T, i>::type;
02322
02323
02324
              template<typename T, size_t i>
02325
              struct lnp1_coeff {
                   using type = makefraction_t<T,
02326
02327
                       alternate_t<T, i + 1>,
02328
                       typename T::template val<i>;
02329
              };
02330
02331
               template<typename T>
02332
               struct lnpl_coeff<T, 0> { using type = typename FractionField<T>::zero; };
02333
02334
               template<typename T, size_t i, typename E = void>
              struct asinh_coeff_helper;
02335
02336
02337
               template<typename T, size_t i>
02338
              struct asinh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {</pre>
02339
                  using type = makefraction_t<T,
02340
                       typename T::template mul_t<
                           alternate_t<T, i / 2>,
factorial t<T, i - 1>
02341
02342
02343
02344
                       typename T::template mul_t<
02345
                           T::template mul_t<
02346
                                typename T::template val<i>,
                               pow_t<T, (factorial<T, i / 2>::value), 2>
02347
02348
02349
                           pow_t<T, 4, i / 2>
02350
02351
02352
              } ;
02353
02354
              template<typename T, size t i>
02355
              struct asinh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {</pre>
02356
                  using type = typename FractionField<T>::zero;
02357
02358
02359
              template<typename T, size_t i>
02360
              struct asinh coeff {
02361
                  using type = typename asinh_coeff_helper<T, i>::type;
02362
02363
02364
              template<typename T, size_t i, typename E = void>
02365
              struct atanh_coeff_helper;
02366
              template<tvpename T, size t i>
02367
              struct atanh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 1» {
02368
02369
                   // 1/i
02370
                   using type = typename FractionField<T>:: template val<
02371
                       typename T::one,
02372
                       typename T::template val<static_cast<typename T::inner_type>(i)»;
02373
              };
02374
02375
               template<typename T, size_t i>
02376
              struct atanh_coeff_helper<T, i, std::enable_if_t<(i & 1) == 0» {</pre>
02377
                  using type = typename FractionField<T>::zero;
02378
              };
02379
02380
              template<typename T, size_t i>
02381
              struct atanh_coeff {
02382
                  using type = typename asinh_coeff_helper<T, i>::type;
02383
02384
02385
              template<typename T, size_t i, typename E = void>
              struct tan_coeff_helper;
02386
```

```
02387
02388
              template<typename T, size_t i>
02389
              struct tan_coeff_helper<T, i, std::enable_if_t<(i % 2) == 0» {</pre>
                 using type = typename FractionField<T>::zero;
02390
02391
02392
02393
              template<typename T, size_t i>
02394
              struct tan_coeff_helper<T, i, std::enable_if_t<(i % 2) != 0» {</pre>
02395
                  // 4^((i+1)/2)
02396
02397
                  using \_4p = typename FractionField<T>::template inject_t<pow_t<T, 4, (i + 1) / 2»;
                  // 4^{(i+1)/2} - 1
02398
                  using _4pm1 = typename FractionField<T>::template sub_t<_4p, typename</pre>
02399
     FractionField<T>::one>;
02400
                  // (-1)^((i-1)/2)
02401
                  using altp = typename FractionField<T>::template inject_t<alternate_t<T, (i - 1) / 2»;
                  using dividend = typename FractionField<T>::template mul_t<</pre>
02402
02403
                      altp,
02404
                      FractionField<T>::template mul_t<
02405
                       _4p,
02406
                      FractionField<T>::template mul_t<
02407
                       _4pm1,
                      bernouilli_t<T, (i + 1)>
02408
02409
02410
02411
02412
              public:
02413
                  using type = typename FractionField<T>::template div_t<dividend,
02414
                      typename FractionField<T>::template inject_t<factorial_t<T, i + 1»>;
02415
              };
02416
02417
              template<typename T, size_t i>
02418
              struct tan_coeff {
02419
                  using type = typename tan_coeff_helper<T, i>::type;
02420
02421
02422
              template<typename T, size_t i, typename E = void>
              struct tanh_coeff_helper;
02424
02425
              template<typename T, size_t i>
              struct tanh_coeff_helper<T, i, std::enable_if_t<(i \% 2) == 0» {
02426
                  using type = typename FractionField<T>::zero;
02427
02428
02429
02430
              template<typename T, size_t i>
02431
              struct tanh_coeff_helper<T, i, std::enable_if_t<(i % 2) != 0» {</pre>
02432
              private:
02433
                  using _4p = typename FractionField<T>::template inject_t<pow_t<T, 4, (i + 1) / 2»;
                  using _4pm1 = typename FractionField<T>::template sub_t<_4p, typename
02434
     FractionField<T>::one>;
02435
                  using dividend =
02436
                      typename FractionField<T>::template mul_t<</pre>
02437
                      _4p,
02438
                      typename FractionField<T>::template mul_t<</pre>
02439
                       _4pm1,
02440
                      bernouilli t<T, (i + 1)>
02441
02442
                      >::type;
              public:
02443
02444
                  using type = typename FractionField<T>::template div_t<dividend,
02445
                      FractionField<T>::template inject_t<factorial_t<T, i + 1>>;
02446
              };
02447
02448
              template<typename T, size_t i>
02449
              struct tanh_coeff {
02450
                 using type = typename tanh_coeff_helper<T, i>::type;
02451
02452
          } // namespace internal
02453
02457
          template<typename T, size_t deg>
02458
          using exp = taylor<T, internal::exp_coeff, deg>;
02459
02463
          template<typename T, size_t deg>
          using expm1 = typename polynomial<FractionField<T>::template sub_t<</pre>
02464
02465
              exp<T, deq>
02466
              typename polynomial<FractionField<T>::one>;
02467
02471
          template<typename T, size_t deg>
02472
          using lnp1 = taylor<T, internal::lnp1_coeff, deg>;
02473
02477
          template<typename T, size_t deg>
02478
          using atan = taylor<T, internal::atan_coeff, deg>;
02479
02483
          template<typename T, size_t deg>
02484
          using sin = taylor<T, internal::sin_coeff, deg>;
02485
02489
          template<typename T, size t deg>
```

```
02490
                 using sinh = taylor<T, internal::sh_coeff, deg>;
02491
02495
                 template<typename T, size_t deg>
02496
                 using cosh = taylor<T, internal::cosh_coeff, deg>;
02497
                template<typename T, size_t deg>
using cos = taylor<T, internal::cos_coeff, deg>;
02501
02502
02503
                template<typename T, size_t deg>
using geometric_sum = taylor<T, internal::geom_coeff, deg>;
02507
02508
02509
02513
                 template<typename T, size_t deg>
02514
                 using asin = taylor<T, internal::asin_coeff, deg>;
02515
02519
                 template<typename T, size_t deg>
02520
                 using asinh = taylor<T, internal::asinh_coeff, deg>;
02521
02525
                 template<typename T, size_t deg>
                 using atanh = taylor<T, internal::atanh_coeff, deg>;
02526
02527
                 template<typename T, size_t deg>
using tan = taylor<T, internal::tan_coeff, deg>;
02531
02532
02533
                 template<typename T, size_t deg>
02537
02538
                 using tanh = taylor<T, internal::tanh_coeff, deg>;
               // namespace aerobus
02539 }
02540
02541 // continued fractions
02542 namespace aerobus {
02545
                template<int64 t... values>
02546
                 struct ContinuedFraction {};
02547
02550
                 template<int64_t a0>
02551
                 struct ContinuedFraction<a0> {
02552
                        using type = typename q64::template inject_constant_t<a0>;
02553
                        static constexpr double val = type::template get<double>();
02554
                 };
02559
                 template<int64_t a0, int64_t... rest>
02560
                 struct ContinuedFraction<a0, rest...> {
02561
                        using type = q64::template add_t<
02562
                                      typename q64::template inject_constant_t<a0>,
02563
                                      typename q64::template div_t <
02564
                                             typename q64::one,
02565
                                             typename ContinuedFraction<rest...>::type
02566
02567
                        static constexpr double val = type::template get<double>();
02568
                 };
02569
02574
                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>;
02577
                 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>;
02579
                using SQRT2 fraction =
         using SQRT3_fraction =
02581
          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
02582 } // namespace aerobus
02583
02584 // known polynomials
02585 namespace aerobus {
02586
                 // CChebyshev
02587
                 namespace internal {
02588
                        template<int kind, int deg>
02589
                        struct chebyshev_helper {
02590
                               using type = typename pi64::template sub_t<
                                     typename pi64::template mul_t<
02591
02592
                                      typename pi64::template mul_t<
02593
                                     pi64::inject_constant_t<2>,
02594
                                      typename pi64::X
02595
02596
                                      typename chebyshev_helper<kind, deg - 1>::type
02597
02598
                                      typename chebyshev helper<kind, deg - 2>::type
02599
                               >;
02600
                        };
02601
02602
                        template<>
02603
                        struct chebyshev helper<1, 0> {
02604
                               using type = typename pi64::one;
02605
                        };
02606
02607
                        template<>
02608
                        struct chebyshev_helper<1, 1> {
02609
                               using type = typename pi64::X;
02610
                        };
```

```
02612
              template<>
02613
              struct chebyshev_helper<2, 0> {
02614
                  using type = typename pi64::one;
02615
02616
02617
              template<>
02618
              struct chebyshev_helper<2, 1> {
02619
                 using type = typename pi64::template mul_t<
02620
                       typename pi64::inject_constant_t<2>,
                       typename pi64::X>;
02621
02622
              };
02623
          } // namespace internal
02624
02625
          // Laguerre
          namespace internal {
02626
02627
              template<size_t deg>
              struct laguerre_helper {
02628
02629
               private:
02630
                  // Lk = (1 / k) * ((2 * k - 1 - x) * 1km1 - (k - 2)Lkm2)
02631
                   using lnm2 = typename laguerre_helper<deg - 2>::type;
                   using lnm1 = typename laguerre_helper<deg - 1>::type;
02632
02633
                   // -x + 2k-1
                  using p = typename pq64::template val<
    typename q64::template inject_constant_t<-1>,
02634
02635
                       typename q64::template inject_constant_t<2 * deg - 1»;
02636
02637
                   // 1/n
02638
                   using factor = typename pq64::template inject_ring_t<
02639
                       q64::val<typename i64::one, typename i64::template inject_constant_t<deg>>;
02640
02641
               public:
02642
                  using type = typename pq64::template mul_t <
02643
                       factor,
02644
                       typename pq64::template sub_t<
02645
                           {\tt typename \ pq64::template \ mul\_t<}
02646
                               p,
02647
                               lnm1
02648
02649
                           typename pq64::template mul_t<
02650
                               typename pq64::template inject_constant_t<deg-1>,
02651
                               1 nm2
02652
02653
02654
                  >;
02655
02656
              };
02657
02658
              template<>
              struct laguerre_helper<0> {
02659
02660
                  using type = typename pq64::one;
02661
              };
02662
02663
              template<>
02664
              struct laguerre_helper<1> {
02665
                  using type = typename pq64::template sub_t<typename pq64::one, typename pq64::X>;
02666
02667
             // namespace internal
02668
02669
          namespace known_polynomials {
              enum hermite_kind {
02671
02672
                  probabilist,
02673
                  physicist
02674
              };
02675
          }
02676
02677
          namespace internal {
02678
              template<size_t deg, known_polynomials::hermite_kind kind>
02679
              struct hermite_helper {};
02680
              template<size_t deg>
02682
              struct hermite_helper<deg, known_polynomials::hermite_kind::probabilist> {
               private:
02683
02684
                  using hnm1 = typename hermite_helper<deg - 1,
      known_polynomials::hermite_kind::probabilist>::type;
02685
                  using hnm2 = typename hermite_helper<deg - 2,
      known_polynomials::hermite_kind::probabilist>::type;
02686
02687
               public:
02688
                  using type = typename pi64::template sub_t<
02689
                       typename pi64::template mul_t<typename pi64::X, hnm1>,
                       typename pi64::template mul_t<
02690
02691
                           typename pi64::template inject_constant_t<deg - 1>,
02692
02693
02694
                  >;
02695
              };
02696
```

```
template<size_t deg>
02698
                       struct hermite_helper<deg, known_polynomials::hermite_kind::physicist> {
                        private:
02699
02700
                            using hnm1 = typename hermite_helper<deg - 1,
         known_polynomials::hermite_kind::physicist>::type;
02701
                            using hnm2 = typename hermite helper<deg - 2.
          known_polynomials::hermite_kind::physicist>::type;
02702
02703
                        public:
02704
                             using type = typename pi64::template sub_t<
02705
                                    // 2X Hn-1
02706
                                    typename pi64::template mul_t<
02707
                                          typename pi64::val<typename i64::template inject_constant_t<2>,
02708
                                          typename i64::zero>, hnm1>,
02709
02710
                                    typename pi64::template mul_t<
02711
                                          typename pi64::template inject_constant_t<2*(deg - 1)>,
02712
                                          hnm2
02714
                             >;
02715
                      };
02716
02717
                       template<>
02718
                       struct hermite_helper<0, known_polynomials::hermite_kind::probabilist> {
02719
                             using type = typename pi64::one;
02720
02721
02722
                       template<>
02723
                       struct hermite_helper<1, known_polynomials::hermite_kind::probabilist> {
02724
                             using type = typename pi64::X;
02725
                      };
02726
02727
                       template<>
02728
                       struct hermite_helper<0, known_polynomials::hermite_kind::physicist> {
02729
                             using type = typename pi64::one;
02730
02731
02732
                       template<>
02733
                       struct hermite_helper<1, known_polynomials::hermite_kind::physicist> {
02734
                           // 2X
02735
                             using type = typename pi64::template val<typename i64::template inject_constant_t<2>,
         typename i64::zero>;
02736
                       }:
02737
                     // namespace internal
02738
02739
                namespace known_polynomials {
02742
                       template <size_t deg>
02743
                       using chebyshev_T = typename internal::chebyshev_helper<1, deg>::type;
02744
02747
                       template <size t deg>
02748
                      using chebyshev_U = typename internal::chebyshev_helper<2, deg>::type;
02749
02752
                       template <size_t deg>
02753
                       using laguerre = typename internal::laguerre_helper<deg>::type;
02754
02757
                       template <size t deg>
02758
                       using hermite_prob = typename internal::hermite_helper<deg, hermite_kind::probabilist>::type;
02759
02762
02763
                       using hermite_phys = typename internal::hermite_helper<deg, hermite_kind::physicist>::type;
02764
                    // namespace known_polynomials
02765 } // namespace aerobus
02767
02768 #ifdef AEROBUS_CONWAY_IMPORTS
02769 template<int p, int n>
02770 struct ConwayPolynomial;
02771
02772 #define ZPZV ZPZ::template val
02773 #define POLYV aerobus::polynomial<ZPZ>::template val
02774 template<> struct ConwayPolynomial<2, 1> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
         ZPZV<1»; }; // NOLINT</pre>
02775 template<> struct ConwayPolynomial<2, 2> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
         ZPZV<1>, ZPZV<1»; }; // NOLINT</pre>
02776 template<> struct ConwayPolynomial<2, 3> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
          ZPZV<0>, ZPZV<1>, ZPZV<1»; }; // NOLINT</pre>
02777 template<> struct ConwayPolynomial<2, 4> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1»; }; // NOLINT
02778 template<> struct ConwayPolynomial<2, 5> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
    ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1»; }; // NOLINT</pre>
02779 template<> struct ConwayPolynomial<2, 6> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
          ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<1»; }; // NOLINT</pre>
02780 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
02781 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<2>, ZPZV<2>; using type = POLYV<ZPZV<1>, ZPZV<1>, ZPZV<2>; using type = POLYV<ZPZV<1>, ZPZV<1>, ZPZV<2>; using type = POLYV<ZPZV<1>, ZPZV<3>; ZPZV<3>; ZPZV<3>; ZPZV<4>; ZPZV<5 ; ZPZV<5 ;
```

```
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1»; }; // NOLINT</pre>
 02783 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>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1</pre>; };
                                 NOLINT
02784 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<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1»; };
 02785 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>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<0>, ZPZV<1>,
                                  ZPZV<1»; }; // NOLINT</pre>
02786 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<1</pre>
                                  ZPZV<1>, ZPZV<1»; }; // NOLINT</pre>
 02787 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<1 , ZPZ
                                   ZPZV<0>, ZPZV<0>, ZPZV<1»; }; // NOLINT</pre>
02788 template<> struct ConwayPolynomial<2, 15> { 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<1>, ZPZV<1
02789 template<> struct ConwayPolynomial<2, 16> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
                                 ZPZV<0>, ZPZV<0 , ZPZV<0 
02790 template<> struct ConwayPolynomial<2, 17> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>,
                                 ZPZV<0>, ZPZV<0>
02791 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<0>, ZPZV<0>,
                                  ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1»; }; // NOLINT</pre>
02792 template<> struct ConwayPolynomial<2, 19> { using ZPZ = aerobus::zpz<2>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>; // NOLINT
02793 template<> struct ConwayPolynomial<2, 20> { using ZPZ = aerobus::zpz<2>; using type =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                POLYV<ZPZV<1>.
                                   ZPZV<0>, ZPZV<1>, ZPZV<1>,
                                   ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>; }; // NOLINT
 02794 template<> struct ConwayPolynomial<3, 1> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                 ZPZV<1»; }; // NOLINT</pre>
02795 template<> struct ConwayPolynomial<3, 2> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                 ZPZV<2>, ZPZV<2»; }; // NOLINT</pre>
 02796 template<> struct ConwayPolynomial<3, 3> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                  ZPZV<0>, ZPZV<2>, ZPZV<1»; }; // NOLINT</pre>
 02797 template<> struct ConwayPolynomial<3, 4> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                 \mbox{ZPZV}<2>, \mbox{ZPZV}<0>, \mbox{ZPZV}<0>, \mbox{ZPZV}<2\gg; }; // NOLINT
 02798 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>
 02799 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»; }; // NOLINT</pre>
 02800 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<0>, ZPZV<1»; }; // NOLINT
02801 template<> struct ConwayPolynomial<3, 8> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                  ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZ
02802 template<> struct ConwayPolynomial<3, 9> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                   ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<1>, ZPZV<1»; }; // NOLINT</pre>
 02803 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<2>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<2»; };</pre>
                                  NOLINT
02804 template<> struct ConwayPolynomial<3, 11> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV
 02805 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<1>, ZPZV<1 , ZPZV<1 
                                  ZPZV<2»; }; // NOLINT
02806 template<> struct ConwayPolynomial<3, 13> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV
                                   ZPZV<2>, ZPZV<1»; }; // NOLINT</pre>
 02807 template<> struct ConwayPolynomial<3, 14> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                   \texttt{ZPZV} < \texttt{0} >, \ \texttt{ZPZV} < \texttt{2} >, \ \texttt{ZPZV} < \texttt{1} >, \ \texttt{ZPZV} < \texttt{2} >, \ \texttt{2PZV} < \texttt{2} >, \ \texttt{2
                                  ZPZV<1>, ZPZV<0>, ZPZV<2»; }; // NOLINT</pre>
02808 template<> struct ConwayPolynomial<3, 15> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                  ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<0>,
                                   ZPZV<0>, ZPZV<2>, ZPZV<1>, ZPZV<1»; };</pre>
                                                                                                                                                                                                                                                        // NOLINT
02809 template<> struct ConwayPolynomial<3, 16> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                   \texttt{ZPZV} < \texttt{0} >, \ \texttt{ZPZV} < \texttt{2} >, \ \texttt{2
                                  \label{eq:continuous} \texttt{ZPZV<2>,} \quad \texttt{ZPZV<2>,} \quad \texttt{ZPZV<1>,} \quad \texttt{ZPZV<2»;} \quad \texttt{}; \quad \texttt{//} \quad \texttt{NOLINT}
02810 template<> struct ConwayPolynomial<3, 17> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                 ZPZV<0>, ZPZV<0 , ZPZV<0 
 02811 template<> struct ConwayPolynomial<3, 18> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<2>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>; }; // NOLINT
02812 template<> struct ConwayPolynomial<3, 19> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                 ZPZV<0>, ZPZV<0 , ZPZ
 02813 template<> struct ConwayPolynomial<3, 20> { using ZPZ = aerobus::zpz<3>; using type = POLYV<ZPZV<1>,
                                  ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<0>, ZPZV<1>, ZPZ
ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<2>; }; // NOLINT 02814 template<> struct ConwayPolynomial<5, 1> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                                  ZPZV<3»; }; // NOLINT
```

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02815 template<> struct ConwayPolynomial<5, 2> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                          ZPZV<4>, ZPZV<2»; }; // NOLINT</pre>
 02816 template<> struct ConwayPolynomial<5, 3> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<3>, ZPZV<3»; }; // NOLINT</pre>
02817 template<> struct ConwayPolynomial<5, 4> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<4>, ZPZV<2»; }; // NOLINT
 02818 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</pre>
 02819 template<> struct ConwayPolynomial<5, 6> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                          \mbox{ {\tt ZPZV<0>, ZPZV<1>, ZPZV<4>, ZPZV<1>, ZPZV<0>, ZPZV<2*; }; \ // \ \mbox{ NOLINT } 
02820 template<> struct ConwayPolynomial<5, 7> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<3»; }; // NOLINT</pre>
02821 template<> struct ConwayPolynomial<5, 8> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>; ); // NOLINT
02822 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<0>, ZPZV<2>, ZPZV<2>, ZPZV<1>, ZPZV<3»; }; // NOLINT
02823 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<4>, ZPZV<1>, ZPZV<2»; };</pre>
02824 template<> struct ConwayPolynomial<5, 11> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<3>, ZPZV<3</pre>
                           // NOLINT
02825 template<> struct ConwayPolynomial<5, 12> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<5</pre>
                          ZPZV<2»; }; // NOLINT</pre>
02826 template<> struct ConwayPolynomial<5, 13> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZ
                         ZPZV<3>, ZPZV<3»; }; // NOLINT</pre>
02827 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<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<3>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<3>, ZPZV<3>, ZPZV<3>, ZPZV<5>, ZPZV<4>, ZPZV<4 , ZPZ
02828 template<> struct ConwayPolynomial<5, 15> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZ
                          ZPZV<3>, ZPZV<3>, ZPZV<4>, ZPZV<3»; }; // NOLINT</pre>
02829 template<> struct ConwayPolynomialS, 16> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<4 , ZPZV<
                         ZPZV<2>, ZPZV<4>, ZPZV<4>, ZPZV<1>, ZPZV<2»; }; // NOLINT</pre>
 02830 template<> struct ConwayPolynomial<5, 17> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<0>
                          ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<2>, ZPZV<3»; }; // NOLINT</pre>
02831 template<> struct ConwayPolynomial<5, 18> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<2>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<2>; }; // NOLINT
02832 template<> struct ConwayPolynomial<5, 19> { using ZPZ = aerobus::zpz<5>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<0 , ZPZ
02833 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<0>, ZPZV<3>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<5>, ZPZ
ZPZV<2>, ZPZV<3>, ZPZV<3>, ZPZV<3>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<5, ZPZV<3>, ZPZV<5, ZPZV<
                         ZPZV<4»; }; // NOLINT</pre>
 02835 template<> struct ConwayPolynomial<7, 2> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                         ZPZV<6>, ZPZV<3»; }; // NOLINT</pre>
 02836 template<> struct ConwayPolynomial<7, 3> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                         ZPZV<6>, ZPZV<0>, ZPZV<4»; }; // NOLINT</pre>
02837 template<> struct ConwayPolynomial<7, 4> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<5>, ZPZV<4>, ZPZV<3»; };</pre>
                                                                                                                                                                                            // NOLINT
 02838 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>
 02839 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>
02840 template<> struct ConwayPolynomial<7, 7> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<4»; }; // NOLINT
 02841 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»; };</pre>
                                                                                                                                                                                                                                                                                                                                                 // NOLINT
02842 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<6>, ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<6 , ZPZV<6 
                         ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<4>, ZPZV<1>, ZPZV<2>, ZPZV<3>, ZPZV<3»; }; //</pre>
                         NOLINT
02844 template<> struct ConwayPolynomial<7, 11> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1</pre>
                           // NOLINT
02845 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<4>, ZPZV<5>, ZPZV<5>, ZPZV<0>,
                          ZPZV<3»; }; // NOLINT</pre>
 02846 template<> struct ConwayPolynomial<7, 13> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZ
                         ZPZV<0>, ZPZV<4»; }; // NOLINT</pre>
02847 template<> struct ConwavPolynomial<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<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6</pre>
                          ZPZV<3>, ZPZV<6>, ZPZV<3»; }; // NOLINT</pre>
 02848 template<> struct ConwayPolynomial<7, 15> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
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ZPZV<1>, ZPZV<6>, ZPZV<2>, ZPZV<4>, ZPZV<3»; }; // NOLINT</pre>
 02850 template<> struct ConwayPolynomial<7, 17> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<4»; }; // NOLINT</pre>
02851 template<> struct ConwayPolynomial<7, 18> { 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<5>, ZPZV<5>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<5>, ZPZV<7>, ZPZV<3>, ZPZV<3
 02852 template<> struct ConwayPolynomial<7, 19> { using ZPZ = aerobus::zpz<7>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
                       ZPZV<0>, ZPZV<1>, ZPZV<2>, ZPZV<3>, ZPZV<3 , ZPZ
 02854 template<> struct ConwayPolynomial<11, 1> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                       ZPZV<9»; }; // NOLINT</pre>
 02855 template<> struct ConwayPolynomial<11, 2> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                       ZPZV<7>, ZPZV<2»: }; // NOLINT
 02856 template<> struct ConwayPolynomial<11, 3> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<2>, ZPZV<9»; }; // NOLINT</pre>
02857 template<> struct ConwayPolynomial<11, 4> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                                                                                                                                                                                 // NOLINT
                       ZPZV<0>, ZPZV<8>, ZPZV<10>, ZPZV<2»; };</pre>
 02858 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>
 02859 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>
 02860 template<> struct ConwayPolynomial<11, 7> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<9»; }; // NOLINT</pre>
 02861 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<7>, ZPZV<7>, ZPZV<7>, ZPZV<7>, ZPZV<7>, ZPZV<7</pre>
02862 template<> struct ConwayPolynomial<11, 9> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<9>, ZPZV<8>, ZPZV<8>, ZPZV<9»; }; // NOLINT
 02863 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>
02864 template<> struct ConwayPolynomial<11, 11> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZP
                         // NOLINT
 02865 template<> struct ConwayPolynomial<11, 12> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<4>, ZPZV<2>, ZPZV<5>, ZPZV<5>, ZPZV<6>, ZPZV<6>, ZPZV<5>,
                        ZPZV<2»; }; // NOLINT</pre>
02866 template<> struct ConwayPolynomial<11, 13> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                       ZPZV<7>. ZPZV<9»: 1: // NOLINT
02867 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<0>, ZPZV<2>, ZPZV<9>, ZPZV<6>, ZPZV<4>, ZPZV<8>,
                        ZPZV<6>, ZPZV<10>, ZPZV<2»; }; // NOLINT</pre>
02868 template<> struct ConwayPolynomial<11, 15> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
                        \texttt{ZPZV} < \texttt{0} >, \ \texttt{Z
ZPZV<5>, ZPZV<0>, ZPZV<0>, ZPZV<9»; }; // NOLINT
02869 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<10>, ZPZV<10
 02870 template<> struct ConwayPolynomial<11, 17> { using ZPZ = aerobus::zpz<11>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<8>, ZPZV<10>, ZPZV<3>, ZPZV<9>,
                        ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<9>, ZPZV<8>, ZPZV<2>, ZPZV<2»; }; // NOLINT</pre>
 02872 template<> struct ConwayPolynomial<11, 19> { 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<8>, ZPZV<2>, ZPZV<2>, ZPZV<9»; }; // NOLINT

02873 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<9>, ZPZV<1>,
                        ZPZV<5>, ZPZV<7>, ZPZV<2>, ZPZV<4>, ZPZV<5>, ZPZV<5>, ZPZV<6>, ZPZV<5>, ZPZV<5>, ZPZV<5</pre>
, // NOLINI
 02874 template<> struct ConwayPolynomial<13, 1> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                       ZPZV<11»; }; // NOLINT</pre>
 02875 template<> struct ConwayPolynomial<13, 2> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                       ZPZV<12>, ZPZV<2»; }; // NOLINT</pre>
 02876 template<> struct ConwayPolynomial<13, 3> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<2>, ZPZV<11»; }; // NOLINT</pre>
 02877 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>
 02878 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>
02879 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>
 02880 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</pre>
 02881 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
02882 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<1>, ZPZV<12>, ZPZV<13>, ZPZV<12>, ZPZV
 02883 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>
02884 template<> struct ConwayPolynomial<13, 11> { 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<3>, ZPZV<11»; };
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// NOLINT
 02885 template<> struct ConwayPolynomial<13, 12> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<5>, ZPZV<6>, ZPZV<11>, ZPZV<3>, ZPZV<1>, ZPZV<1>, ZPZV<4>,
                     ZPZV<2»; }; // NOLINT</pre>
 02886 template<> struct ConwayPolynomial<13, 13> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZ
 02887 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<2>, ZPZV<12>, ZPZV<12>, ZPZV<11>,
ZPZV<10>, ZPZV<11>, ZPZV<8>, ZPZV<11»; }; // NOLINT

02889 template<> struct ConwayPolynomial<13, 16> { 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<0>, ZPZV<3>, ZPZV<12>, ZPZV<12>, ZPZV<8>, ZPZV<2>,
                     ZPZV<12>, ZPZV<9>, ZPZV<12>, ZPZV<6>, ZPZV<2»; }; // NOLINT</pre>
02890 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<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1, ZPZV<1,
02892 template<> struct ConwayPolynomial<13, 19> { using ZPZ = aerobus::zpz<13>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>); // NOLINT
02893 template<> struct ConwayPolynomial<13, 20> { 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<12>, ZPZV<12>, ZPZV<9>, ZPZV<0>,
                     02894 template<> struct ConwayPolynomial<17, 1> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                     ZPZV<14»; }; // NOLINT</pre>
02895 template<> struct ConwayPolynomial<17, 2> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                     ZPZV<16>, ZPZV<3»; }; // NOLINT</pre>
 02896 template<> struct ConwayPolynomial<17, 3> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<1>, ZPZV<14»; }; // NOLINT</pre>
 02897 template<> struct ConwayPolynomial<17, 4> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<7>, ZPZV<10>, ZPZV<3»; }; // NOLINT</pre>
02898 template<> struct ConwayPolynomial<17, 5> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<14»; }; // NOLINT</pre>
 02899 template<> struct ConwayPolynomial<17, 6> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<2>, ZPZV<0>, ZPZV<10>, ZPZV<3>, ZPZV<3»; }; // NOLINT</pre>
 02900 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<0>, ZPZV<12>, ZPZV<14»; }; // NOLINT

02901 template<> struct ConwayPolynomial<17, 8> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<6>, ZPZV<6>, ZPZV<3»; }; // NOLINT
 02902 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<0>, ZPZV<14»; }; // NOLINT</pre>
 02903 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<13»; }; //</pre>
                    NOLINT
02904 template<> struct ConwayPolynomial<17, 11> { 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<5>, ZPZV<14»; };</pre>
                      // NOLINT
 02905 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>
02906 template<> struct ConwayPolynomial<17, 13> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>
                     ZPZV<15>, ZPZV<14»; }; // NOLINT</pre>
 02907 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<1>, ZPZV<11>, ZPZV<1>, ZPZV<8>, ZPZV<16>, ZPZV<13>,
                     ZPZV<9>, ZPZV<3>, ZPZV<3»; }; // NOLINT
 02908 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<4>, ZPZV<4>, ZPZV<4>, ZPZV<16>,
                     ZPZV<6>, ZPZV<14>, ZPZV<14>, ZPZV<14»; }; // NOLINT</pre>
 02909 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<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<13>, ZPZV<5>, ZPZV<2>, ZPZV<12>, ZPZV<13>, ZPZV<12>, ZPZV<12>, ZPZV<1>, ZPZV<1
, ZP
                     ZPZV<0>, ZPZV<0>
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<16>, ZPZV<14»; }; // NOLINT</pre>
02911 template<> struct ConwayPolynomial<17, 18> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<9>, ZPZV<16>, ZPZV<16>, ZPZV<7>, ZPZV<1>,
ZPZV<0>, ZPZV<9>, ZPZV<11>, ZPZV<13>, ZPZV<13>, ZPZV<9>, ZPZV<3»; }; // NOLINT
02912 template<> struct ConwayPolynomial<17, 19> { using ZPZ = aerobus::zpz<17>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0 , ZPZ
 02913 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<5>, ZPZV<56, ZPZV<16, ZPZV<14>, ZPZV<13>, ZPZV<3>, ZPZV<3>, ZPZV<41>, ZPZV<41>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<3»; }; // NOLINT 02914 template<> struct ConwayPolynomial<19, 1> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                    ZPZV<17»; }; // NOLINT</pre>
 02915 template<> struct ConwayPolynomial<19, 2> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                     ZPZV<18>, ZPZV<2»; }; // NOLINT
 02916 template<> struct ConwayPolynomial<19, 3> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<4>, ZPZV<17*; }; // NOLINT
 02917 template<> struct ConwayPolynomial<19, 4> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<21>, ZPZV<2»; }; // NOLINT
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02918 template<> struct ConwayPolynomial<19, 5> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<5, ZPZV<17»; }; // NOLINT
02919 template<> struct ConwayPolynomial<19, 6> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<17>, ZPZV<17>, ZPZV<6>, ZPZV<2»; }; // NOLINT</pre>
 02920 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
 02921 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>
 02922 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<16>, ZPZV<17»; }; // NOLINT 02923 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<17>, ZPZV<3>, ZPZV<4>, ZPZV<2»; }; //</pre>
                    NOLINT
 02924 template<> struct ConwayPolynomial<19, 11> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>
                      // NOLINT
02925 template<> struct ConwayPolynomial<19, 12> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                    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>
02926 template<> struct ConwayPolynomial<19, 13> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<0>
02927 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<11>, ZPZV<11>, ZPZV<11>, ZPZV<11>, ZPZV<1>, ZPZV<5>,
02928 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<1>, ZPZV<1>, ZPZV<11>, ZPZV<11>, ZPZV<13>,
                    \text{ZPZV}<15>, \text{ZPZV}<14>, \text{ZPZV}<0>, \text{ZPZV}<17>; // NOLINT
02929 template<> struct ConwayPolynomial<19, 16> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<1>, ZPZV<1
02930 template<> struct ConwayPolynomial<19, 17> { using ZPZ = aerobus::zpz<19>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZ
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<17»; }; // NOLINT</pre>
02931 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<5>, ZPZV<5-, ZP
ZPZV<0>, ZPZV<16>, ZPZV<5>, ZPZV<7>, ZPZV<3>, ZPZV<14>, ZPZV<2»; }; // NOLINT

02932 template<> struct ConwayPolynomial<19, 19> { 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<18>, ZPZV<17»; }; // NOLINT</pre>
 02933 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<8>, ZPZV<6>, ZPZV<3>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<2»; }; // NOLINT</pre>
02934 template<> struct ConwayPolynomial<23, 1> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<18»; }; // NOLINT
 02935 template<> struct ConwayPolynomial<23, 2> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<21>, ZPZV<5»; }; // NOLINT</pre>
 02936 template<> struct ConwayPolynomial<23, 3> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<2>, ZPZV<18»; }; // NOLINT</pre>
 02937 template<> struct ConwayPolynomial<23, 4> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<3>, ZPZV<19>, ZPZV<5»; };</pre>
                                                                                                                                                       // NOLINT
 02938 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</pre>
 02939 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>
 02940 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</pre>
 02941 template<> struct ConwayPolynomial<23, 8> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<20>, ZPZV<5>, ZPZV<5>, ZPZV<5»; }; // NOLINT</pre>
 02942 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<0>, ZPZV<3>, ZPZV<3>, ZPZV<8>, ZPZV<9>, ZPZV<18»; }; // NOLINT
02943 template<> struct ConwayPolynomial<23, 10> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<17>, ZPZV<5>, ZPZV<15>, ZPZV<6>, ZPZV<6>, ZPZV<5>; };
02944 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>
                     }; // NOLINT
02945 template<> struct ConwayPolynomial<23, 12> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<21>, ZPZV<21>, ZPZV<15>, ZPZV<14>, ZPZV<12>, ZPZV<18>,
                     ZPZV<12>, ZPZV<5»; }; // NOLINT</pre>
02946 template<> struct ConwayPolynomial<23, 13> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<0>
ZPZV<9>, ZPZV<18»; }; // NOLINT
02947 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<0>, ZPZV<1>, ZPZV<1>, ZPZV<16>, ZPZV<1>, ZPZV<18>, ZPZV<19>, ZPZV<1>, ZPZV<2>, ZPZV<2>, ZPZV<3»; }; // NOLINT
 02948 template<> struct ConwayPolynomial<23, 15> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                   ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<8>, ZPZV<15>, ZPZV<9>, ZPZV<7>, ZPZV<18>, ZPZV<18»; }; // NOLINT</pre>
02949 template<> struct ConwayPolynomial<23, 16> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZV<1>, ZPZV<19>, ZPZV<19>, ZPZV<16>,
                                                                                                                                                                                              // NOLINT
                     ZPZV<13>, ZPZV<1>, ZPZV<14>, ZPZV<17>, ZPZV<5»; };</pre>
 02950 template<> struct ConwayPolynomial<23, 17> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                    ZPZV<0>, ZPZ
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ZPZV<16>, ZPZV<21>, ZPZV<0>, ZPZV<11>, ZPZV<3>, ZPZV<19>, ZPZV<5»; };</pre>
 02952 template<> struct ConwayPolynomial<23, 19> { using ZPZ = aerobus::zpz<23>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZ
                      02953 template<> struct ConwayPolynomial<29, 1> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                      ZPZV<27»: }: // NOLINT
 02954 template<> struct ConwayPolynomial<29, 2> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                      ZPZV<24>, ZPZV<2»; }; // NOLINT</pre>
 02955 template<> struct ConwayPolynomial<29, 3> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<2>, ZPZV<27»; }; // NOLINT</pre>
02956 template<> struct ConwayPolynomial<29, 4> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                     ZPZV<0>, ZPZV<2>, ZPZV<15>, ZPZV<2»; }; // NOLINT</pre>
02957 template<> struct ConwayPolynomial<29, 5> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<27»; }; // NOLINT</pre>
 02958 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</pre>
02959 template<> struct ConwayPolynomial<29, 7> { 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<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<24>, ZPZV<26>, ZPZV<23>, ZPZV<2»; }; //</pre>
 02961 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<4>, ZPZV<22>, ZPZV<22>, ZPZV<27»; }; // NOLINT
02962 template<> struct ConwayPolynomial<29, 10> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<25>, ZPZV<8>, ZPZV<17>, ZPZV<22>, ZPZV<22>, ZPZV<22>, ZPZV<22>; }; //
                      NOLINT
02963 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<0>, ZPZV<28>, ZPZV<28>, ZPZV<8</pre>
                      }; // NOLINT
 02964 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>
02965 template<> struct ConwayPolynomial<29, 13> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZ
                      ZPZV<7>, ZPZV<27»; }; // NOLINT</pre>
02966 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<10>, ZPZV<10>, ZPZV<21>, ZPZV<18>,
                      ZPZV<27>, ZPZV<5>, ZPZV<2»; }; // NOLINT</pre>
 02967 template<> struct ConwayPolynomial<29, 15> { 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<0>, ZPZV<13>, ZPZV<14>, ZPZV<8>,
ZPZV<1>, ZPZV<12>, ZPZV<26>, ZPZV<27»; }; // NOLINT

02968 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<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<2>, ZPZV<20>, ZPZV
02969 template<> struct ConwayPolynomial<29, 17> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZ
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<27»; }; // NOLINT</pre>
02970 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<24>, ZPZV<1>, ZPZV<1>, ZPZV<6>, ZPZV<26>, ZPZV<26>, ZPZV<20, ZPZV<10>, ZPZV<8>, ZPZV<16>, ZPZV<14>, ZPZV<2»; }; // NOLINT</pre>
02971 template<> struct ConwayPolynomial<29, 19> { using ZPZ = aerobus::zpz<29>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>
                       \texttt{ZPZV} < \texttt{0} >, \ \texttt{ZPZV} < \texttt{2} ? ; \ \ \}; \ \ \ // \ \texttt{NOLINT} 
 02972 template<> struct ConwayPolynomial<31, 1> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                      ZPZV<28»; }; // NOLINT</pre>
02973 template<> struct ConwayPolynomial<31, 2> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                      ZPZV<29>, ZPZV<3»; }; // NOLINT</pre>
 02974 template<> struct ConwayPolynomial<31, 3> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<1>, ZPZV<28»; }; // NOLINT</pre>
 02975 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
02976 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>
 02977 template<> struct ConwayPolynomial<31, 6> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<19>, ZPZV<16>, ZPZV<8>, ZPZV<3»; }; // NOLINT</pre>
 02978 template<> struct ConwayPolynomial<31, 7> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                      \texttt{ZPZV} < \texttt{0} >, \ \texttt{ZPZV} < \texttt{1} >, \ \texttt{ZPZV} < \texttt{2} \\ \texttt{8}  ; \quad \  \  // \ \  \  \text{NOLINT} 
02979 template<> struct ConwayPolynomial<31, 8> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<25>, ZPZV<12>, ZPZV<24>, ZPZV<3»; }; // NOLINT
02980 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<0>, ZPZV<4>, ZPZV<29>, ZPZV<29>, ZPZV<29>, ZPZV<28»; }; // NOLINT 02981 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<13>, ZPZV<14</pre>
                     NOLINT
02982 template<> struct ConwayPolynomial<31, 11> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>
                      }; // NOLINT
 02983 template<> struct ConwayPolynomial<31, 12> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<14>, ZPZV<28>, ZPZV<2>, ZPZV<2>, ZPZV<9>, ZPZV<25>, ZPZV<12>,
                      ZPZV<3»; }; // NOLINT</pre>
02984 template<> struct ConwayPolynomial<31, 13> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>
                      ZPZV<6>, ZPZV<28»; }; // NOLINT</pre>
 02985 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<5>, ZPZV<5>, ZPZV<1>, ZPZV<18>,
                      {\tt ZPZV<18>}, {\tt ZPZV<6>}, {\tt ZPZV<3}; }; // NOLINT
02986 template<> struct ConwayPolynomial<31, 15> { using ZPZ = aerobus::zpz<31>; 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<3>, ZPZV<3 , ZP
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ZPZV<13>, ZPZV<23>, ZPZV<25>, ZPZV<28»; };</pre>
 02987 template<> struct ConwayPolynomial<31, 16> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
0298/ template<> struct ConwayPolynomial<<11, 16> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<24>, ZPZV<26>, ZPZV<26>, ZPZV<28>, ZPZV<24>, ZPZV<26>, ZPZV<28>, ZPZV<11>, ZPZV<19>, ZPZV<27>, ZPZV<3»; }; // NOLINT

02988 template<> struct ConwayPolynomial<31, 17> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , ZPZ
                      ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<27>, ZPZV<27>, ZPZV<24>, ZPZV<24, ZPZV<2>, ZPZV<7>, ZPZV<12>, ZPZV<11>, ZPZV<25>, ZPZV<25>, ZPZV<10>, ZPZV<6>, ZPZV<3»; }; // NOLINT</pre>
ZPZV<12>, ZPZV<11>, ZPZV<25>, ZPZV<25>, ZPZV<10>, ZPZV<6>, ZPZV<3»; }; // NOLINT
02990 template<> struct ConwayPolynomial<31, 19> { using ZPZ = aerobus::zpz<31>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZ
 02991 template<> struct ConwayPolynomial<37, 1> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                       ZPZV<35»; }; // NOLINT</pre>
 02992 template<> struct ConwayPolynomial<37, 2> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                      ZPZV<33>, ZPZV<2»; }; // NOLINT
 02993 template<> struct ConwayPolynomial<37, 3> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<6>, ZPZV<35»; }; // NOLINT</pre>
 02994 template<> struct ConwayPolynomial<37, 4> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<6>, ZPZV<24>, ZPZV<2»; };</pre>
                                                                                                                                                                              // NOLINT
 02995 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

02996 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>
 02997 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<35»; }; // NOLINT
 02998 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<1>, ZPZV<2*; };  // NOLINT</pre>
02999 template<> struct ConwayPolynomial<37, 9> { 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<6>, ZPZV<6 , ZPZ
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<29>, ZPZV<18>, ZPZV<11>, ZPZV<4>, ZPZV<4>, ZPZV<2»; }; //</pre>
03001 template<> struct ConwayPolynomial<37, 11> { 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<2>, ZPZV<35»; };
                        // NOLINT
 03002 template<> struct ConwayPolynomial<37, 12> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<31>, ZPZV<10>, ZPZV<23>, ZPZV<23>, ZPZV<18>,
                        ZPZV<33>, ZPZV<2»; }; // NOLINT</pre>
03003 template<> struct ConwayPolynomial<37, 13> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>
03004 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>
03005 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<3>, ZPZV<35»; }; // NOLINT</pre>
 03007 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<1>, ZPZV<1>, ZPZV<1>, ZPZV<15>, ZPZV<15>, ZPZV<1>, ZPZV<22>, ZPZV<20>, ZPZV<12>, ZPZV<32>, ZPZV<14>, ZPZV<27>, ZPZV<20>, ZPZV<2»; }; // NOLINT</pre>
03008 template<> struct ConwayPolynomial<37, 19> { using ZPZ = aerobus::zpz<37>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZ
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<36>, ZPZV<23>, ZPZV<25»; }; // NOLINT</pre>
 03009 template<> struct ConwayPolynomial<41, 1> { using ZPZ = aerobus::zpz<41>, using type = POLYV<ZPZV<1>,
                      ZPZV<35»; }; // NOLINT</pre>
 03010 template<> struct ConwayPolynomial<41, 2> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                      ZPZV<38>, ZPZV<6»; }; // NOLINT
 03011 template<> struct ConwayPolynomial<41, 3> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<1>, ZPZV<35»; }; // NOLINT</pre>
 03012 template<> struct ConwayPolynomial<41, 4> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                      ZPZV<0>, ZPZV<0>, ZPZV<23>, ZPZV<6»; }; // NOLINT</pre>
03013 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
 03014 template<> struct ConwayPolynomial<41, 6> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<4>, ZPZV<33>, ZPZV<39>, ZPZV<6>, ZPZV<6»; }; // NOLINT</pre>
 03015 template<> struct ConwayPolynomial<41, 7> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                        \texttt{ZPZV} < \texttt{0} >, \ \texttt{ZPZV} < \texttt{6} >, \ \texttt{ZPZV} < \texttt{35} *; \ \ // \ \ \texttt{NOLINT} 
 03016 template<> struct ConwayPolynomial<41, 8> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<32>, ZPZV<20>, ZPZV<6>, ZPZV<6»; }; // NOLINT
03017 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<4>, ZPZV<31>, ZPZV<5>, ZPZV<35»; }; // NOLINT
 03018 template<> struct ConwayPolynomial<41, 10> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<31>, ZPZV<8>, ZPZV<20>, ZPZV<30>, ZPZV<6»; }; //</pre>
                       NOLTNT
03019 template<> struct ConwayPolynomial<41, 11> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                       ZPZV<0>, ZPZV<0>
                        }; // NOLINT
 03020 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<24>, ZPZV<21>,
                       ZPZV<27>, ZPZV<6»; }; // NOLINT</pre>
 03021 template<> struct ConwayPolynomial<41, 13> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZP
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ZPZV<13>, ZPZV<35»; };</pre>
 03022 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<15>, ZPZV<4>, ZPZV<27>, ZPZV<11>,
ZPZV<39>, ZPZV<10>, ZPZV<6»; }; // NOLINT</pre>
 03023 template<> struct ConwayPolynomial<41, 15> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<2>, ZPZV<10>, ZPZV<21>, ZPZV<35»; }; // NOLINT

03024 template<> struct ConwayPolynomial<41, 17> { using ZPZ = aerobus::zpz<41>; 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<3>, ZPZV<3>, ZPZV<3</pre>
 ZPZV<38>, ZPZV<24>, ZPZV<12>, ZPZV<29>, ZPZV<10>, ZPZV<6>, ZPZV<6»; }; // NOLINT
03026 template<> struct ConwayPolynomial<41, 19> { using ZPZ = aerobus::zpz<41>; using type = POLYV<ZPZV<1>,
                  ZPZV<0>, ZPZ
                  ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<35»; }; // NOLINT</pre>
03027 template<> struct ConwayPolynomial<43, 1> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                 ZPZV<40»; }; // NOLINT
 03028 template<> struct ConwayPolynomial<43, 2> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                 ZPZV<42>, ZPZV<3»; }; // NOLINT</pre>
 03029 template<> struct ConwayPolynomial<43, 3> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                 ZPZV<0>, ZPZV<1>, ZPZV<40»; }; // NOLINT</pre>
03030 template<> struct ConwayPolynomial<43, 4> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<42>, ZPZV<42>, ZPZV<3»; }; // NOLINT
03031 template<> struct ConwayPolynomial<43, 5> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<40»; }; // NOLINT</pre>
 03032 template<> struct ConwayPolynomial<43, 6> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                  \mbox{ZPZV<0>, ZPZV<0>, ZPZV<19>, ZPZV<28>, ZPZV<21>, ZPZV<3>; }; // \mbox{NOLINT} 
 03033 template<> struct ConwayPolynomial<43, 7> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<42>, ZPZV<42>, ZPZV<40»; }; // NOLINT
03034 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»; };</pre>
                                                                                                                                                                                                                                             // NOLINT
 03035 template<> struct ConwayPolynomial<43, 9> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
NOLINT
03037 template<> struct ConwayPolynomial<43, 11> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<40»; };</pre>
                  // NOLINT
03038 template<> struct ConwayPolynomial<43, 12> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<34>, ZPZV<27>, ZPZV<16>, ZPZV<17>, ZPZV<6>, ZPZV<23>,
                 ZPZV<38>, ZPZV<3»; }; // NOLINT</pre>
03039 template<> struct ConwayPolynomial<43, 13> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
                  ZPZV<0>, ZPZV<0>,
                  ZPZV<4>, ZPZV<40»; }; // NOLINT</pre>
03040 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<0>, ZPZV<42>, ZPZV<42>,
                  ZPZV<4>, ZPZV<15>, ZPZV<37>, ZPZV<40»; }; // NOLINT</pre>
 03042 template<> struct ConwayPolynomial<43, 17> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0 , ZPZ
                  ZPZV<24>, ZPZV<29>, ZPZV<16>, ZPZV<34>, ZPZV<37>, ZPZV<18>, ZPZV<3»; };</pre>
                                                                                                                                                                                                                            // NOLINT
 03044 template<> struct ConwayPolynomial<43, 19> { using ZPZ = aerobus::zpz<43>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>
                 ZPZV<42»; }; // NOLINT
 03046 template<> struct ConwayPolynomial<47, 2> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                 ZPZV<45>, ZPZV<5»; }; // NOLINT</pre>
 03047 template<> struct ConwayPolynomial<47, 3> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                 ZPZV<0>, ZPZV<3>, ZPZV<42»; }; // NOLINT</pre>
03048 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>
 03049 template<> struct ConwayPolynomial<47, 5> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                  ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<42»; }; // NOLINT</pre>
 03050 template<> struct ConwayPolynomial<47, 6> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<2>, ZPZV<3>>, ZPZV<4>, ZPZV<41>, ZPZV<5>; }; // NOLINT
03051 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>
 03052 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</pre>
03055 template<> struct ConwayPolynomial<47, 11> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                 ZPZV<0>, ZPZV<0>
                  // NOLINT
 03056 template<> struct ConwayPolynomial<47, 12> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                  ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<40>, ZPZV<46>, ZPZV<40>, ZPZV<40>, ZPZV<35>, ZPZV<12>, ZPZV<46>, ZPZV<14>,
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ZPZV<9>, ZPZV<5»; }; // NOLINT</pre>
 03057 template<> struct ConwayPolynomial<47, 13> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZ
                             ZPZV<5>, ZPZV<42»; }; // NOLINT
 03058 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<17>, ZPZV<24>, ZPZV<24>, ZPZV<29>, ZPZV<32>, ZPZV<30>, ZPZV<30>, ZPZV<17>, ZPZV<24>, ZPZV<9>, ZPZV<32>, ZPZV<5»; }; // NOLINT
 03059 template<> struct ConwayPolynomial<47, 15> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                              \texttt{ZPZV} < \texttt{0} >, \ \texttt{ZPZV} < \texttt{4} >, \ \texttt{ZPZV} < \texttt{3} >, \ \texttt{2PZV} < \texttt{3} >, \ \texttt{3PZV} < \texttt{3
ZPZV<42>, ZPZV<13>, ZPZV<17>, ZPZV<42»; }; // NOLINT
03060 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<0>, ZPZV<6>, ZPZV<41>, ZPZV<42>, ZPZV<26>, ZPZV<44>,
ZPZV<24>, ZPZV<22>, ZPZV<11>, ZPZV<5>, ZPZV<45>, ZPZV<33>, ZPZV<5»; }; // NOLINT
03062 template<> struct ConwayPolynomial<47, 19> { using ZPZ = aerobus::zpz<47>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0 , ZPZ
03063 template<> struct ConwayPolynomial<53, 1> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                             ZPZV<51»; }; // NOLINT</pre>
 03064 template<> struct ConwayPolynomial<53, 2> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
ZPZV<49>, ZPZV<2»; }; // NOLINT
03065 template<> struct ConwayPolynomial<53, 3> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<3>, ZPZV<51»; }; // NOLINT</pre>
 03066 template<> struct ConwayPolynomial<53, 4> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<9>, ZPZV<38>, ZPZV<2»; }; // NOLINT</pre>
 03067 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>
03068 template<> struct ConwayPolynomial<53, 6> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<1>, ZPZV<4>, ZPZV<45, ZPZV<45, ZPZV<45, ZPZV<2»; }; // NOLINT
03069 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<9>, ZPZV<51»; }; // NOLINT</pre>
 03070 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<1>, ZPZV<1>, ZPZV<2»; }; // NOLINT
03071 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<0>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5>, ZPZV<5>; // NOLINT 03072 template<> struct ConwayPolynomial<53, 10> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<27>, ZPZV<15>, ZPZV<29>, ZPZV<2»; };</pre>
03073 template<> struct ConwayPolynomial<53, 11> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZ
                              }: // NOLINT
03074 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</pre>
03075 template<> struct ConwayPolynomial<53, 13> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>
03076 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<3>, ZPZ
 03077 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<0>, ZPZV<0>, ZPZV<2>, ZPZV<31>, ZPZV<31>, ZPZV<31>, ZPZV<11>, ZPZV<20>, ZPZV<4>, ZPZV<51»; }; // NOLINT</pre>
03078 template<>> struct ConwayPolynomial<53, 17> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                              ZPZV<0>, ZPZV<0>
                              ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<51»; }; // NOLINT</pre>
 03079 template<> struct ConwayPolynomial<53, 18> { 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<31>, ZPZV<51>, ZPZV<27>, ZPZV<0>,
ZPZV<39>, ZPZV<44>, ZPZV<6>, ZPZV<8>, ZPZV<16>, ZPZV<11>, ZPZV<2»; }; // NOLINT
03080 template<> struct ConwayPolynomial<53, 19> { using ZPZ = aerobus::zpz<53>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<0>
 03081 template<> struct ConwayPolynomial<59, 1> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                             ZPZV<57»; }; // NOLINT</pre>
 03082 template<> struct ConwayPolynomial<59, 2> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                             ZPZV<58>, ZPZV<2»; }; // NOLINT
 03083 template<> struct ConwayPolynomial<59, 3> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZV<5>, ZPZV<57»; }; // NOLINT</pre>
 03084 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>
 03085 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>
03086 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
 03087 template<> struct ConwayPolynomial<59, 7> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
03091 template<> struct ConwayPolynomial<59, 11> { 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<0>, ZPZV<57»; };
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// NOLINT
 03092 template<> struct ConwayPolynomial<59, 12> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<39>, ZPZV<51>, ZPZV<51>, ZPZV<21>, ZPZV<38>, ZPZV<8>,
                            ZPZV<1>, ZPZV<2»; }; // NOLINT</pre>
 03093 template<> struct ConwayPolynomial<59, 13> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>
                            ZPZV<3>, ZPZV<57»; }; // NOLINT</pre>
 03094 template<> struct ConwayPolynomial<59, 14> { 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
03096 template<>> struct ConwayPolynomial<59, 17> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                             ZPZV<0>, ZPZ
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<57»; }; // NOLINT
03097 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<0>, ZPZV<0>, ZPZV<1>, ZPZV<37>, ZPZV<38>, ZPZV<21>, ZPZV<14>, ZPZV<34>, ZPZV<32>, ZPZV<32>, ZPZV<32>, ZPZV<32>, ZPZV<32>, ZPZV<32>, ZPZV<34>, ZPZV<32>, ZPZV
 03098 template<> struct ConwayPolynomial<59,
                                                                                                                                                                                                           19> { using ZPZ = aerobus::zpz<59>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>
03099 template<> struct ConwayPolynomial<61, 1> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<59»; }; // NOLINT
03100 template<> struct ConwayPolynomial<61, 2> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                            ZPZV<60>, ZPZV<2»; }; // NOLINT</pre>
 03101 template<> struct ConwayPolynomial<61, 3> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<7>, ZPZV<59»; }; // NOLINT</pre>
03102 template<> struct ConwayPolynomial<61, 4> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<40>, ZPZV<2»; }; // NOLINT
03103 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»; };</pre>
                                                                                                                                                                                                                                                                    // NOLINT
 03104 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>
03105 template<> struct ConwayPolynomial<61, 7> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<59»; }; // NOLINT
03106 template<> struct ConwayPolynomial<61, 8> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<57>, ZPZV<1>, ZPZV<56>, ZPZV<2»; }; // NOLINT</pre>
 03107 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<5>, ZPZV<5>, ZPZV<50>, ZPZ
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<28>, ZPZV<15>, ZPZV<44>, ZPZV<16>, ZPZV<6>, ZPZV<6>, ZPZV<2»; }; //</pre>
                            NOLINT
03109 template<> struct ConwayPolynomial<61, 11> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>
                             }; // NOLINT
03110 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<1-</pre>
                            ZPZV<15>, ZPZV<2»; }; // NOLINT
03111 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>
 03112 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<1>, ZPZV<48>, ZPZV<26>, ZPZV<11>, ZPZV<30>,
ZPZV<54>, ZPZV<48>, ZPZV<48>, ZPZV<2»; }; // NOLINT</pre>
03113 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<3>, ZPZV<35>, ZPZV<34>,
ZPZV<25>, ZPZV<23>, ZPZV<51>, ZPZV<59»; }; // NOLINT
03114 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<0>, ZPZV<0>, ZPZV<3>, ZPZV<35>, ZPZV<36>, ZPZV<13>, ZPZV<36>, ZPZV<44>,
ZPZV<32>, ZPZV<57>, ZPZV<42>, ZPZV<25>, ZPZV<25>, ZPZV<52>, ZPZV<20>; }; // NOLINT
03116 template<> struct ConwayPolynomial<61, 19> { using ZPZ = aerobus::zpz<61>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>
03117 template<> struct ConwayPolynomial<67, 1> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                           ZPZV<65»; }; // NOLINT
 03118 template<> struct ConwayPolynomial<67, 2> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                             ZPZV<63>, ZPZV<2»; }; // NOLINT</pre>
 03119 template<> struct ConwayPolynomial<67, 3> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<6>, ZPZV<65»; }; // NOLINT</pre>
 03120 template<> struct ConwayPolynomial<67, 4> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
 ZPZV<0>, ZPZV<8>, ZPZV<54>, ZPZV<2»; }; // NOLINT
03121 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</pre>
 03122 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</pre>
03123 template<> struct ConwayPolynomial<67, 7> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<65»; }; // NOLINT
03124 template<> struct ConwayPolynomial<67, 8> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<46, ZPZV<46, ZPZV<64, ZPZV<64, ZPZV<2»; }; // NOLINT 03125 template<> struct ConwayPolynomial<67, 9> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
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NOLINT
03127 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<0>, ZPZV<0>, ZPZV<0>, ZPZV<66>, ZPZV<9>, ZPZV<66</pre>
                          }; // NOLINT
 03128 template<> struct ConwayPolynomial<67, 12> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>>, ZPZV<57>, ZPZV<27>, ZPZV<4>, ZPZV<55>, ZPZV<64>, ZPZV<64 , 
 03129 template<> struct ConwayPolynomial<67, 13> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<0>
03130 template<> struct ConwayPolynomial<67, 14> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<0 , ZPZ
 03131 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<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<5>, ZPZV<4>,
ZPZV<20>, ZPZV<21>, ZPZV<46>, ZPZV<65»; }; // NOLINT
03132 template<> struct ConwayPolynomial<67, 17> { using ZPZ = aerobus::zpz<67>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZ
03133 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<1>, ZPZV<63>, ZPZV<52>, ZPZV<18>, ZPZV<33>,
                           ZPZV<55>, ZPZV<28>, ZPZV<29>, ZPZV<51>, ZPZV<6>, ZPZV<59>, ZPZV<13>, ZPZV<2»; }; // NOLINT</pre>
ZPZV<0>, ZPZV<6>, ZPZV<6 , ZPZ
03135 template<> struct ConwayPolynomial<71, 1> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                            ZPZV<64»; }; // NOLINT
 03136 template<> struct ConwayPolynomial<71, 2> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                           ZPZV<69>, ZPZV<7»; }; // NOLINT</pre>
03137 template<> struct ConwayPolynomial<71, 3> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<4>, ZPZV<64»; }; // NOLINT</pre>
 03138 template<> struct ConwayPolynomial<71, 4> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZV<4>, ZPZV<41>, ZPZV<7»; };
                                                                                                                                                                                                         // NOLINT
 03139 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*; }; // NOLINT

03140 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

03141 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
 03142 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</pre>
03143 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<0>, ZPZV<4>, ZPZV<4>, ZPZV<4>, ZPZV<62>, ZPZV<64»; }; // NOLINT
03144 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
03145 template<> struct ConwayPolynomial<71, 11> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<048>, ZPZV<64»;
                            }; // NOLINT
03146 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<51>, ZPZV<58>,
                           ZPZV<23>, ZPZV<7»; }; // NOLINT</pre>
 03147 template<> struct ConwayPolynomial<71, 13> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<0>
03148 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<2>, ZPZV<28>, ZPZV<28>, ZPZV<32>, ZPZV<18>,
                            ZPZV<52>, ZPZV<67>, ZPZV<49>, ZPZV<64»; }; // NOLINT</pre>
 03149 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
03150 template<> struct ConwayPolynomial<71, 19> { using ZPZ = aerobus::zpz<71>; using type = POLYV<ZPZV<1>,
                            ZPZV<0>, ZPZ
                            ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<64»; }; // NOLINT</pre>
 03151 template<> struct ConwayPolynomial<73, 1> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                           ZPZV<68»; }; // NOLINT</pre>
 03152 template<> struct ConwayPolynomial<73, 2> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                           ZPZV<70>, ZPZV<5»; }; // NOLINT
 03153 template<> struct ConwayPolynomial<73, 3> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<2>, ZPZV<68»; }; // NOLINT</pre>
 03154 template<> struct ConwayPolynomial<73, 4> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<16>, ZPZV<56>, ZPZV<5»; }; // NOLINT
 03155 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>
03156 template<> struct ConwayPolynomial<73, 6> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                           ZPZV<0>, ZPZV<0>, ZPZV<45>, ZPZV<23>, ZPZV<48>, ZPZV<5»; }; // NOLINT</pre>
 03157 template<> struct ConwayPolynomial<73, 7> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
O3159 template<> struct ConwayPolynomial<73, 9> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , ZPZ
                          NOLINT
03161 template<> struct ConwayPolynomial<73, 11> { 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<5>, ZPZV<6>, ZPZV<6 , ZP
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03162 template<> struct ConwayPolynomial<73, 12> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<69>, ZPZV<52>, ZPZV<26>, ZPZV<20>, ZPZV<46>, ZPZV<29>,
                         ZPZV<25>, ZPZV<5»; }; // NOLINT</pre>
 03163 template<> struct ConwayPolynomial<73, 13> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<0>
                         ZPZV<7>, ZPZV<68»; }; // NOLINT</pre>
 03164 template<> struct ConwayPolynomial<73, 15> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                          \texttt{ZPZV} < \texttt{0>, ZPZV} < \texttt{0
ZPZV<57>, ZPZV<57>, ZPZV<62>, ZPZV<68»; }; // NOLINT
03165 template<> struct ConwayPolynomial<73, 17> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<0>,
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<68»; }; // NOLINT
03166 template<> struct ConwayPolynomial<73, 19> { using ZPZ = aerobus::zpz<73>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZ
                          ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<25>, ZPZV<68»; }; // NOLINT</pre>
03167 template<> struct ConwayPolynomial<79, 1> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                         ZPZV<76»; }; // NOLINT
 03168 template<> struct ConwayPolynomial<79, 2> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                         ZPZV<78>, ZPZV<3»; }; // NOLINT</pre>
 03169 template<> struct ConwayPolynomial<79, 3> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<9>, ZPZV<76»; }; // NOLINT</pre>
03170 template<> struct ConwayPolynomial<79, 4> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<2>, ZPZV<66>, ZPZV<3»; }; // NOLINT
03171 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</pre>
 03172 template<> struct ConwayPolynomial<79, 6> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<19>, ZPZV<28>, ZPZV<68>, ZPZV<3»; }; // NOLINT</pre>
 03173 template<> struct ConwayPolynomial<79, 7> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<76»; }; // NOLINT
03174 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»; };</pre>
                                                                                                                                                                                                                                                                                                                                                         // NOLINT
 03175 template<> struct ConwayPolynomial<79, 9> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
NOLINT
03177 template<> struct ConwayPolynomial<79, 11> { 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<3>, ZPZV<76»; };</pre>
                           // NOLINT
03178 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
03179 template<> struct ConwayPolynomial<79, 13> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<0</pre>, ZPZV<0>, ZP
                          ZPZV<4>, ZPZV<76»; }; // NOLINT</pre>
03180 template<> struct ConwayPolynomial<79, 17> { using ZPZ = aerobus::zpz<79>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZ
                        ZPZV<0>, ZPZV<0 , ZPZ
 03182 template<> struct ConwayPolynomial<83, 1> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                        ZPZV<81»; }; // NOLINT</pre>
03183 template<> struct ConwayPolynomial<83, 2> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
ZPZV<82>, ZPZV<2»; }; // NOLINT
03184 template<> struct ConwayPolynomial<83, 3> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<3>, ZPZV<81»; }; // NOLINT
 03185 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>
03186 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>
03187 template<> struct ConwayPolynomial<83, 6> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                          ZPZV<0>, ZPZV<1>, ZPZV<76>, ZPZV<32>, ZPZV<17>, ZPZV<2»; }; // NOLINT</pre>
 03188 template<> struct ConwayPolynomial<83, 7> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                         \texttt{ZPZV} < \texttt{0} >, \ \texttt{ZPZV} < \texttt{3} >, \ \texttt{ZPZV} < \texttt{81} \text{ }; \quad // \ \text{ NOLINT } 
03189 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
03190 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<0>, ZPZV<1>, ZPZV<1>, ZPZV<24>, ZPZV<18>, ZPZV<81»; // NOLINT 03191 template<> struct ConwayPolynomial<83, 10> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>
                         ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<7>, ZPZV<73>, ZPZV<73>, ZPZV<73>, ZPZV<53>, ZPZV<53>, ZPZV<53>, ZPZV<53</pre>
                        NOLINT
03192 template<> struct ConwayPolynomial<83, 11> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZ
                          }; // NOLINT
 03193 template<> struct ConwayPolynomial<83, 12> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<35>, ZPZV<12>, ZPZV<31>, ZPZV<19>, ZPZV<65>, ZPZV<55>,
ZPZV<75>, ZPZV<2»; }; // NOLINT</pre>
03194 template<> struct ConwayPolynomial<83, 13> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZV<0>
                         ZPZV<15>, ZPZV<81»; }; // NOLINT</pre>
 03195 template<> struct ConwayPolynomial<83, 17> { using ZPZ = aerobus::zpz<83>; using type = POLYV<ZPZV<1>,
                         ZPZV<0>, ZPZ
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ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<47>, ZPZV<41»; }; // NOLINT</pre>
03197 template<> struct ConwayPolynomial<89, 1> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                ZPZV<86»; }; // NOLINT
03198 template<> struct ConwayPolynomial<89, 2> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                ZPZV<82>, ZPZV<3»; }; // NOLINT
03199 template<> struct ConwayPolynomial<89, 3> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                ZPZV<0>, ZPZV<3>, ZPZV<86»; }; // NOLINT</pre>
03200 template<> struct ConwayPolynomial<89, 4> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                ZPZV<0>, ZPZV<4>, ZPZV<72>, ZPZV<3»; };</pre>
                                                                                                                             // NOLINT
03201 template<> struct ConwayPolynomial<89, 5> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<86»; }; // NOLINT

03202 template<> struct ConwayPolynomial<89, 6> { using ZPZ = aerobus::zpz<89»; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<80>, ZPZV<15>, ZPZV<3»; }; // NOLINT
03203 template<> struct ConwayPolynomial<89, 7> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<86»; }; // NOLINT</pre>
03204 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»; }; // NOLINT
03205 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<5>, ZPZV<12>, ZPZV<6>, ZPZV<66»; }; // NOLINT</pre>
03206 template<> struct ConwayPolynomial<89, 10> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                 ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<16>, ZPZV<33>, ZPZV<52>, ZPZV<52>, ZPZV<4>, ZPZV<3»; }; //</pre>
                NOLINT
03207 template<> struct ConwayPolynomial<89, 11> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                }; // NOLINT
03208 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<8>, ZPZV<70>,
                ZPZV<52>, ZPZV<3»; }; // NOLINT</pre>
03209 template<> struct ConwayPolynomial<89, 13> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                ZPZV<0>, ZPZ
03210 template<> struct ConwayPolynomial<89, 17> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>,
                 ZPZV<0>, ZPZ
                 ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<20>, ZPZV<86»; };  // NOLINT</pre>
03211 template<> struct ConwayPolynomial<89, 19> { using ZPZ = aerobus::zpz<89>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZP
03212 template<> struct ConwayPolynomial<97, 1> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                 ZPZV<92»; }; // NOLINT</pre>
03213 template<> struct ConwayPolynomial<97, 2> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                ZPZV<96>, ZPZV<5»; }; // NOLINT</pre>
03214 template<> struct ConwayPolynomial<97, 3> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                ZPZV<0>, ZPZV<9>, ZPZV<92»: }: // NOLINT
03215 template<> struct ConwayPolynomial<97, 4> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                ZPZV<0>, ZPZV<6>, ZPZV<80>, ZPZV<5»; }; // NOLINT</pre>
03216 template<> struct ConwayPolynomial<97, 5> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<92»; }; // NOLINT</pre>
03217 template<> struct ConwayPolynomial<97, 6> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<8>, ZPZV<8>, ZPZV<8>, ZPZV<8>, ZPZV<8>; }; // NOLINT
03218 template<> struct ConwayPolynomial<97, 7> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>,
                ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<92»; }; // NOLINT
03219 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</pre>
03220 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<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<12>, ZPZV<7>, ZPZV<7>, ZPZV<29, ZPZV<12>, ZPZV<7>, ZPZV<7>, ZPZV<92»; }; // NOLINT
03221 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>
03222 template<> struct ConwayPolynomial<97, 11> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5-, ZP
                 // NOLINT
03223 template<> struct ConwayPolynomial<97, 12> { using ZPZ = aerobus::zpz<97>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<59>, ZPZV<81>, ZPZV<86>, ZPZV<88>, ZPZV<78>,
                 ZPZV<94>, ZPZV<5»; }; // NOLINT</pre>
03224 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>
03225 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<0>, ZPZV<5>, ZPZV<92»; }; // NOLINT</pre>
03226 template<> struct ConwayPolynomial<97, 19> { using ZPZ = aerobus::zpz<97>; 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<1>>, ZPZV<20»; }; // NOLINT 03227 template<> struct ConwayPolynomial<101, 1> { using ZPZ = aerobus::zpz<101>; using type =
                POLYV<ZPZV<1>, ZPZV<99»; }; // NOLINT
03228 template<> struct ConwayPolynomial<101, 2> { using ZPZ = aerobus::zpz<101>; using type =
                POLYV<ZPZV<1>, ZPZV<97>, ZPZV<2»; }; // NOLINT
03229 template<> struct ConwayPolynomial<101, 3> { using ZPZ = aerobus::zpz<101>; using type =
                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<99»; }; // NOLINT
03230 template<> struct ConwayPolynomial<101, 4> { using ZPZ = aerobus::zpz<101>; using type =
                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<78>, ZPZV<2»; }; // NOLINT
03231 template<> struct ConwayPolynomial<101, 5> { using ZPZ = aerobus::zpz<101>; using type =
                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<99»; }; // NOLINT
03232 template<> struct ConwayPolynomial<101, 6> { using ZPZ = aerobus::zpz<101>; using type =
                03233 template<> struct ConwayPolynomial<101, 7> { using ZPZ = aerobus::zpz<101>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<9»; }; // NO
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03234 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<24>, ZPZV<29; }; //
                         NOLINT
03235 template<> struct ConwayPolynomial<101, 9> { using ZPZ = aerobus::zpz<101>; using type =
                        POLYV<7P7V<1>. 7P7V<0>. 7P7V<0>. 7P7V<0>. 7P7V<0>. 7P7V<0>. 7P7V<0>. 7P7V<0>. 7P7V<64>. 7P7V<44>. 7P7V<49»: }:
                           // NOLINT
03236 template<> struct ConwayPolynomial<101, 10> { using ZPZ = aerobus::zpz<101>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<67>, ZPZV<49>, ZPZV<100>, ZPZV<100>, ZPZV<52>,
                         ZPZV<2»; }; // NOLINT</pre>
03237 template<> struct ConwayPolynomial<101, 11> { using ZPZ = aerobus::zpz<101>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03238 template<> struct ConwayPolynomial<101, 12> { using ZPZ = aerobus::zpz<101>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<79>, ZPZV<64>, ZPZV<64>, ZPZV<39>, ZPZV<78>, ZPZV<48>, ZPZV<84>, ZPZV<21>, ZPZV<21>, ZPZV<22>; }; // NOLINT
03239 template<> struct ConwayPolynomial<101, 13> { using ZPZ = aerobus::zpz<101>; 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>); // NOLINT

03240 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>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<31>, ZPZV<99»; }; // NOLINT 03241 template<> struct ConwayPolynomial<101, 19> { using ZPZ = aerobus::zpz<101>; 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<24>, ZPZV<24>, ZPZV<299»; }; //</pre>
                         NOLINT
03242 template<> struct ConwayPolynomial<103, 1> { using ZPZ = aerobus::zpz<103>; using type =
                         POLYV<ZPZV<1>, ZPZV<98»; }; // NOLINT
 03243 template<> struct ConwayPolynomial<103, 2> { using ZPZ = aerobus::zpz<103>; using type =
POLYV<ZPZV<1>, ZPZV<102>, ZPZV<5»; }; // NOLINT
03244 template<> struct ConwayPolynomial<103, 3> { using ZPZ = aerobus::zpz<103>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<98»; }; // NOLINT
 03245 template<> struct ConwayPolynomial<103, 4> { using ZPZ = aerobus::zpz<103>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<8>, ZPZV<5>; }; // NOLINT
03246 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
03247 template<> struct ConwayPolynomial<103, 6> { using ZPZ = aerobus::zpz<103>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<9>, ZPZV<9>, ZPZV<30>, ZPZV<30>, ZPZV<5»; }; // NOLINT 03248 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»; };
 03249 template<> struct ConwayPolynomial<103, 8> { using ZPZ = aerobus::zpz<103>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<71>, ZPZV<71>, ZPZV<49>, ZPZV<5»; }; //
                        NOLINT
03250 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<51>, ZPZV<51>, ZPZV<51>, ZPZV<98»; };
03251 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
03252 template<> struct ConwayPolynomial<103, 11> { using ZPZ = aerobus::zpz<103>; using type =
                        POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0
 03253 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»; }; // NOLINT
03254 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<58»; }; // NOLINT
03255 template<> struct ConwayPolynomial<103, 17> { 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<102>, ZPZV<8>, ZPZV<88»; }; // NOLINT
03256 template<> struct ConwayPolynomial<103, 19> { 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<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<98»; }; //</pre>
03257 template<> struct ConwayPolynomial<107, 1> { using ZPZ = aerobus::zpz<107>; using type =
                        POLYV<ZPZV<1>, ZPZV<105»; }; // NOLINT
 03258 template<> struct ConwayPolynomial<107, 2> { using ZPZ = aerobus::zpz<107>; using type =
POLYV<ZPZV<1>, ZPZV<103>, ZPZV<2»; }; // NOLINT
03259 template<> struct ConwayPolynomial<107, 3> { using ZPZ = aerobus::zpz<107>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<105»; }; // NOLINT
03260 template<> struct ConwayPolynomial<107, 4> { using ZPZ = aerobus::zpz<107>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<13>, ZPZV<79>, ZPZV<2»; }; // NOLINT
03261 template<> struct ConwayPolynomial<107, 5> { using ZPZ = aerobus::zpz<107>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<105»; }; // NOLINT
03262 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
 03263 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<16>, ZPZV<105»; }; // NOLINT
03264 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<95; }; //
                         NOLINT
03265 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»; };
03266 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
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03267 template<> struct ConwayPolynomial<107, 11> { using ZPZ = aerobus::zpz<107>; using type
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03268 template<> struct ConwayPolynomial<107, 12> { using ZPZ = aerobus::zpz<107>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<61>,
                               ZPZV<42>, ZPZV<57>, ZPZV<2»; }; // NOLINT</pre>
03269 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»; }; // NOLINT 03270 template<> struct ConwayPolynomial<107, 17> { using ZPZ = aerobus::zpz<107>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                               ZPZV<0>, ZPZV<24>, ZPZV<105»; }; //</pre>
03272 template<> struct ConwayPolynomial<109, 1> { using ZPZ = aerobus::zpz<109>; using type =
                             POLYV<ZPZV<1>, ZPZV<103»; }; // NOLINT
 03273 template<> struct ConwayPolynomial<109, 2> { using ZPZ = aerobus::zpz<109>; using type =
                              POLYV<ZPZV<1>, ZPZV<108>, ZPZV<6»; }; // NOLINT
 03274 template<> struct ConwayPolynomial<109, 3> { using ZPZ = aerobus::zpz<109>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<103»; }; // NOLINT
03275 template<> struct ConwayPolynomial<109, 4> { using ZPZ = aerobus::zpz<109>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<98>, ZPZV<6>; }; // NOLINT
03276 template<> struct ConwayPolynomial<109, 5> { using ZPZ = aerobus::zpz<109>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<103»; }; // NOLINT
 03277 template<> struct ConwayPolynomial<109, 6> { using ZPZ = aerobus::zpz<109>; using type =
                              \texttt{POLYV} < \texttt{ZPZV} < 1>, \ \texttt{ZPZV} < 0>, \ \texttt{ZPZV} < 0>, \ \texttt{ZPZV} < 107>, \ \texttt{ZPZV} < 102>, \ \texttt{ZPZV} < 66>, \ \texttt{ZPZV} < 68>; \ \}; \ \ // \ \texttt{NOLINT} 
 03278 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<14>, ZPZV<143, ZPZV<103»; }; // NOLINT
03279 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»; };
 03280 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<0>, ZPZV<93>, ZPZV<87>, ZPZV<103»; };
                                // NOLINT
03281 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<16>, ZPZV<69>,
                               ZPZV<6»; }; // NOLINT</pre>
 03282 template<> struct ConwayPolynomial<109, 11> { using ZPZ = aerobus::zpz<109>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03283 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<55>, ZPZV<55>, ZPZV<65>,
                              ZPZV<103>, ZPZV<28>, ZPZV<6»; }; // NOLINT</pre>
 03284 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
03285 template<> struct ConwayPolynomial<109, 17> { using ZPZ = aerobus::zpz<109>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<1>; ZPZV<1>; ZPZV<1>; ZPZV<10>; ZPZV
                              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<15>, ZPZV<103»; }; //</pre>
                              NOLINT
03287 template<> struct ConwayPolynomial<113, 1> { using ZPZ = aerobus::zpz<113>; using type =
                              POLYV<ZPZV<1>, ZPZV<110»; }; // NOLINT
 03288 template<> struct ConwayPolynomial<113, 2> { using ZPZ = aerobus::zpz<113>; using type =
                              POLYV<ZPZV<1>, ZPZV<101>, ZPZV<3»; }; // NOLINT
 03289 template<> struct ConwayPolynomial<113, 3> { using ZPZ = aerobus::zpz<113>; using type =
POLYV<ZPZV<1>, ZPZV<8>, ZPZV<810»; }; // NOLINT

03290 template>> struct ConwayPolynomial<113, 4> { using ZPZ = aerobus::zpz<113>; using type =
 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<62, ZPZV<3»; }; // NOLINT
03291 template<> struct ConwayPolynomial<113, 5> { using ZPZ = aerobus::zpz<113>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<110»; }; // NOLINT
 03292 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 03293 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<110»; }; // NOLINT
 03294 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>, ZPZV<3»; }; //
                              NOLINT
03295 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<71>, ZPZV<110»; };
                                // NOLINT
 03296 template<> struct ConwayPolynomial<113, 10> { using ZPZ = aerobus::zpz<113>; using type
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<55>, ZPZV<45>, ZPZV<45>, ZPZV<83>, ZPZV<56>,
                              ZPZV<3»; }; // NOLINT</pre>
03297 template<> struct ConwayPolynomial<113, 11> { using ZPZ = aerobus::zpz<113>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03298 template<> struct ConwayPolynomial<113, 12> { using ZPZ = aerobus::zpz<113>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<23>, ZPZV<62>, ZPZV<4>, ZPZV<98>, ZPZV<56>, ZPZV<10>, ZPZV<27>, ZPZV<3>; // NOLINT
03299 template<> struct ConwayPolynomial<113, 13> { using ZPZ = aerobus::zpz<113>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
```

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03300 template<> struct ConwayPolynomial<113, 17> { using ZPZ = aerobus::zpz<113>; using type
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                               03301 template<> struct ConwayPolynomial<113, 19> { using ZPZ = aerobus::zpz<113>; using type =
                              POLYYCZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<0>, ZPZV<2>, ZPZV<10>, ZPZV<2>, ZPZV<10>, ZPZV<2>, ZPZV<10>, ZPZV<10>, ZPZV<2>, ZPZV<10>, ZPZV<10>, ZPZV<2>, ZPZV<10>, Z
 03302 template<> struct ConwayPolynomial<127, 1> { using ZPZ = aerobus::zpz<127>; using type
                               POLYV<ZPZV<1>, ZPZV<124»; }; // NOLINT
 03303 template<> struct ConwayPolynomial<127, 2> { using ZPZ = aerobus::zpz<127>; using type =
POLYV<ZPZV<1>, ZPZV<126>, ZPZV<3»; }; // NOLINT
03304 template<> struct ConwayPolynomial<127, 3> { using ZPZ = aerobus::zpz<127>; using type =
 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<124»; }; // NOLINT

03305 template<> struct ConwayPolynomial<127, 4> { using ZPZ = aerobus::zpz<127>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<97>, ZPZV<3»; }; // NOLINT
 03306 template<> struct ConwayPolynomial<127, 5> { using ZPZ = aerobus::zpz<127>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>; / NoLINT
03307 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
03308 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<15>, ZPZV<124»; }; // NOLINT
 03309 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<8»; }; //
                               NOLINT
 03310 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<14>, ZPZV<119>, ZPZV<126>, ZPZV<124»;
 03311 template<> struct ConwayPolynomial<127, 10> { using ZPZ = aerobus::zpz<127>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<107>, ZPZV<64>, ZPZV<95>, ZPZV<60>, ZPZV<44>,
                               ZPZV<3»; }; // NOLINT
03312 template<> struct ConwayPolynomial<127, 11> { using ZPZ = aerobus::zpz<127>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<124»; }; // NOLINT
 03313 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<8 > ZPZV<8 >
03314 template<> struct ConwayPolynomial<127, 13> { using ZPZ = aerobus::zpz<127>; using type =
                                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                                ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<124»; };</pre>
                                                                                                                                                                                                                                                 // NOLINT
03315 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<2>, ZPZV<124w; }; // NOLINT
03316 template<> struct ConwayPolynomial<127, 19> { 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<0>, ZPZV<124»; }; //</pre>
                               NOLINT
03317 template<> struct ConwayPolynomial<131, 1> { using ZPZ = aerobus::zpz<131>; using type =
                              POLYV<ZPZV<1>, ZPZV<129»; }; // NOLINT
03318 template<> struct ConwayPolynomial<131, 2> { using ZPZ = aerobus::zpz<131>; using type =
                              POLYV<ZPZV<1>, ZPZV<127>, ZPZV<2»; }; // NOLINT
03319 template<> struct ConwayPolynomial<131, 3> { using ZPZ = aerobus::zpz<131>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<129»; }; // NOLINT
 03320 template<> struct ConwayPolynomial<131, 4> { using ZPZ = aerobus::zpz<131>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<9>, ZPZV<10>, ZPZV<0>; }; // NOLINT
03321 template<> struct ConwayPolynomial<131, 5> { using ZPZ = aerobus::zpz<131>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<19>, ZPZV<129»; }; // NOLINT
03322 template<> struct ConwayPolynomial<131, 6> { using ZPZ = aerobus::zpz<131>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<66>, ZPZV<4>, ZPZV<22>, ZPZV<22>; }; // NOLINT
 03323 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<0>, ZPZV<0>, ZPZV<10>, ZPZV<10>
03324 template<> struct ConwayPolynomial<131, 8> { using ZPZ = aerobus::zpz<131>; using type =
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<72>, ZPZV<116>, ZPZV<104>, ZPZV<2»; }; //
                               NOLINT
03325 template<> struct ConwayPolynomial<131, 9> { using ZPZ = aerobus::zpz<131>; using type :
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<19>, 
                                 // NOLINT
03326 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<9>, ZPZV<126>, ZPZV<44>,
                               ZPZV<2»; }; // NOLINT</pre>
03327 template<> struct ConwayPolynomial<131, 11> { using ZPZ = aerobus::zpz<131>; using type
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03328 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<12>, ZPZV<40>, ZPZV<40>, ZPZV<83>, ZPZV<125>,
                                ZPZV<28>, ZPZV<103>, ZPZV<2»; }; // NOLINT</pre>
 03329 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
03330 template<> struct ConwayPolynomial<131, 17> { using ZPZ = aerobus::zpz<131>; 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<9>, ZPZV<9>, ZPZV<129»; }; //</pre>
 03332 template<> struct ConwayPolynomial<137, 1> { using ZPZ = aerobus::zpz<137>; using type =
                                POLYV<ZPZV<1>, ZPZV<134»; }; // NOLINT
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03333 template<> struct ConwayPolynomial<137, 2> { using ZPZ = aerobus::zpz<137>; using type =
POLYV<ZPZV<1>, ZPZV<131>, ZPZV<3»; }; // NOLINT
03334 template<> struct ConwayPolynomial<137, 3> { using ZPZ = aerobus::zpz<137>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<134»; }; // NOLINT
03335 template<> struct ConwayPolynomial<137, 4> { using ZPZ = aerobus::zpz<137>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<95>, ZPZV<3»; }; // NOLINT
 03336 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
 03337 template<> struct ConwayPolynomial<137, 6> { using ZPZ = aerobus::zpz<137>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<16>, ZPZV<102>, ZPZV<3>, ZPZV<3>, ZPZV<3»; }; // NOLINT 03338 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»; }; // NOLINT
03339 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<34>, ZPZV<35>, //
                         NOLINT
03340 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<0>, ZPZV<1>, ZPZV<80>, ZPZV<80>, ZPZV<122>, ZPZV<134»;
                          ); // NOLINT
03341 template<> struct ConwayPolynomial<137, 10> { using ZPZ = aerobus::zpz<137>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<20, ZPZV<67>, ZPZV<67>, ZPZV<93>, ZPZV<119>,
                          ZPZV<3»; }; // NOLINT</pre>
03342 template<> struct ConwayPolynomial<137, 11> { using ZPZ = aerobus::zpz<137>; using type = aerobus::zpz<137>;
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<134»; }; // NOLINT
03343 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<12>, ZPZV<36>,
                          ZPZV<135>, ZPZV<61>, ZPZV<3»; }; // NOLINT</pre>
 03344 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

03345 template<> struct ConwayPolynomial<137, 17> { using ZPZ = aerobus::zpz<137>; using type = POLYV<ZPZV<1>, ZPZV<0>, Z
ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<136>, ZPZV<4>, ZPZV<134*; }; // NOLINT 03346 template<> struct ConwayPolynomial<137, 19> { using ZPZ = aerobus::zpz<137>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1, ZPZV<0>, ZPZV<1, ZPZ
                         NOLINT
03347 template<> struct ConwayPolynomial<139, 1> { using ZPZ = aerobus::zpz<139>; using type =
                         POLYV<ZPZV<1>, ZPZV<137»; }; // NOLINT
 03348 template<> struct ConwayPolynomial<139, 2> { using ZPZ = aerobus::zpz<139>; using type =
POLYV<ZPZV<1>, ZPZV<138, ZPZV<2»; }; // NOLINT
03349 template<> struct ConwayPolynomial<139, 3> { using ZPZ = aerobus::zpz<139>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<137»; }; // NOLINT
03350 template<> struct ConwayPolynomial</br>
13350 template<> struct ConwayPolynomial</br>
13450 template</br>
1350 template
1350 template</
 03351 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
03352 template<> struct ConwayPolynomial</br>
6> { using ZPZ = aerobus::zpz<139>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<46>, ZPZV<10>, ZPZV<118>, ZPZV<2»; }; // NOLINT</pre>
03353 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<3>, ZPZV<137»; }; // J
 03354 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»; }; //
                         NOLINT
03355 template<> struct ConwayPolynomial<139, 9> { using ZPZ = aerobus::zpz<139>; using type =
                         POLYV<2PZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<70>, ZPZV<87>, ZPZV<87
 03356 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
03357 template<> struct ConwayPolynomial<139, 11> { using ZPZ = aerobus::zpz<139>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03358 template<> struct ConwayPolynomial<139, 12> { using ZPZ = aerobus::zpz<139>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<120>, ZPZV<75>, ZPZV<41>, ZPZV<77>, ZPZV<106>,
                         ZPZV<8>, ZPZV<10>, ZPZV<2»; }; // NOLINT</pre>
 03359 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>
 03360 template<> struct ConwayPolynomial<139, 17> { using ZPZ = aerobus::zpz<139>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                         03361 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<137»; ); //</pre>
 03362 template<> struct ConwayPolynomial<149, 1> { using ZPZ = aerobus::zpz<149>; using type =
                         POLYV<ZPZV<1>, ZPZV<147»; }; // NOLINT
 03363 template<> struct ConwayPolynomial<149, 2> { using ZPZ = aerobus::zpz<149>; using type =
POLYV<ZPZV<1>, ZPZV<145>, ZPZV<2»; }; // NOLINT
03364 template<> struct ConwayPolynomial<149, 3> { using ZPZ = aerobus::zpz<149>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<147»; }; // NOLINT
 03365 template<> struct ConwayPolynomial<149, 4> { using ZPZ = aerobus::zpz<149>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<107>, ZPZV<2»; }; // NOLINT
 03366 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
03367 template<> struct ConwayPolynomial<149, 6> { using ZPZ = aerobus::zpz<149>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<105>, ZPZV<33>, ZPZV<55>, ZPZV<2»; }; // NOLINT
03368 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»; };
 03369 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<2*; }; //
03370 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<146>, ZPZV<20>, ZPZV<147»;
                                    }; // NOLINT
03371 template<> struct ConwayPolynomial<149, 10> { using ZPZ = aerobus::zpz<149>; using type = aerobus::zpz
                                  POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<51>,
                                  ZPZV<2»; }; // NOLINT</pre>
03372 template<> struct ConwayPolynomial<149, 11> { using ZPZ = aerobus::zpz<149>; using type
                                  POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03373 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<121>, ZPZV<91>, ZPZV<52>, ZPZV<9>,
                                  ZPZV<104>, ZPZV<110>, ZPZV<2»; }; // NOLINT</pre>
03374 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»; }; // NOLINT</pre>
03375 template<> struct ConwayPolynomial<149, 17> { using ZPZ = aerobus::zpz<149>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                                  POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                                   ZPZV<0>, ZPZV<0>
                                  NOLINT
03377 template<> struct ConwayPolynomial<151, 1> { using ZPZ = aerobus::zpz<151>; using type =
                                 POLYV<ZPZV<1>, ZPZV<145»; }; // NOLINT
03378 template<> struct ConwayPolynomial<151, 2> { using ZPZ = aerobus::zpz<151>; using type =
                                 POLYV<ZPZV<1>, ZPZV<149>, ZPZV<6»; };
                                                                                                                                                                                                                                                  // NOLINT
 03379 template<> struct ConwayPolynomial<151, 3> { using ZPZ = aerobus::zpz<151>; using type =
                                 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<145»; }; // NOLINT
03380 template<> struct ConwayPolynomial<151, 4> { using ZPZ = aerobus::zpz<151>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<13>, ZPZV<89>, ZPZV<6>; }; // NOLINT
03381 template<> struct ConwayPolynomial<151, 5> { using ZPZ = aerobus::zpz<151>; using type =
                                 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<145»; }; // NOLINT
 03382 template<> struct ConwayPolynomial<151, 6> { using ZPZ = aerobus::zpz<151>; using type =
                                  POLYV<2PZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<125>, ZPZV<18>, ZPZV<15>, ZPZV<6»; }; // NOLINT
 03383 template<> struct ConwayPolynomial<151, 7> { using ZPZ = aerobus::zpz<151>; using type =
                                 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5, ZPZV<5, ZPZV<5, ZPZV<145»; };
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // NOLINT
03384 template<> struct ConwayPolynomial<151, 8> { using ZPZ = aerobus::zpz<151>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<140>, ZPZV<122>, ZPZV<43>, ZPZV<43>, ZPZV<6»; }; //
03385 template<> struct ConwayPolynomial<151, 9> { using ZPZ = aerobus::zpz<151>; using type =
                                 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<125>, ZPZV<96>, ZPZV<96 , ZPZV<97 ,
                                  }; // NOLINT
03386 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</pre>
 03387 template<> struct ConwayPolynomial<151, 11> { using ZPZ = aerobus::zpz<151>; using type =
                                  POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                                   ZPZV<1>, ZPZV<145»; }; // NOLINT</pre>
03388 template<> struct ConwayPolynomial<151, 12> { using ZPZ = aerobus::zpz<151>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<101>, ZPZV<10
 03389 template<> struct ConwayPolynomial<151, 13> { using ZPZ = aerobus::zpz<151>; using type =
                                   POLÝV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<145»; }; // NOLINT
03390 template<> struct ConwayPolynomial<151, 17> { using ZPZ = aerobus::zpz<151>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , ZP
                                   ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<24>, ZPZV<145»; }; // NOLINT</pre>
03391 template<> struct ConwayPolynomial<151, 19> { using ZPZ = aerobus::zpz<151>, using type =
                                  POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                                   \texttt{ZPZV} < \texttt{0} >, \ \texttt{Z
                                  NOLINT
03392 template<> struct ConwavPolynomial<157, 1> { using ZPZ = aerobus::zpz<157>; using type =
                                 POLYV<ZPZV<1>, ZPZV<152»; }; // NOLINT
 03393 template<> struct ConwayPolynomial<157, 2> { using ZPZ = aerobus::zpz<157>; using type =
POLYV<ZPZV<1>, ZPZV<152>, ZPZV<5»; }; // NOLINT
03394 template<> struct ConwayPolynomial<157, 3> { using ZPZ = aerobus::zpz<157>; using type =
                                 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<152»; }; // NOLINT
 03395 template<> struct ConwayPolynomial<157, 4> { using ZPZ = aerobus::zpz<157>; using type =
 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<136>, ZPZV<13»; // NOLINT
03396 template<> struct ConwayPolynomial<157, 5> { using ZPZ = aerobus::zpz<157>; using type =
                                  POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<152»; }; // NOLINT
 03397 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
03398 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
 03399 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<153>, ZPZV<5»; }; //
03400 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
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03401 template<> struct ConwayPolynomial<157, 10> { using ZPZ = aerobus::zpz<157>; using type =
                               POLÝV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<61>, ZPZV<61>, ZPZV<22>, ZPZV<124>, ZPZV<61>, ZPZV<93>,
                              ZPZV<5»; }; // NOLINT</pre>
 03402 template<> struct ConwayPolynomial<157, 11> { using ZPZ = aerobus::zpz<157>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                                                                                                                                                     // NOLINT
                               ZPZV<29>, ZPZV<152»; };</pre>
03403 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>
03404 template<> struct ConwayPolynomial<157, 13> { using ZPZ = aerobus::zpz<157>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0
                               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                               03406 template<> struct ConwayPolynomial<157, 19> { using ZPZ = aerobus::zpz<157>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<14>, ZPZV<152»; }; //
03407 template<> struct ConwayPolynomial<163, 1> { using ZPZ = aerobus::zpz<163>; using type =
                              POLYV<ZPZV<1>, ZPZV<161»; }; // NOLINT
 03408 template<> struct ConwayPolynomial<163, 2> { using ZPZ = aerobus::zpz<163>; using type =
POLYV<ZPZV<1>, ZPZV<159>, ZPZV<2»; }; // NOLINT
03409 template<> struct ConwayPolynomial<163, 3> { using ZPZ = aerobus::zpz<163>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<161»; }; // NOLINT
03410 template<> struct ConwayPolynomial<163, 4> { using ZPZ = aerobus::zpz<163>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<91>, ZPZV<2»; }; // NOLINT
 03411 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
03412 template<> struct ConwayPolynomial<br/>163, 6> { using ZPZ = aerobus::zpz<163>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<83>, ZPZV<25>, ZPZV<156>, ZPZV<2»; }; // NOLINT
 03413 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<0>, ZPZV<5, 
 03414 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<6>, ZPZV<2»; }; //
                              NOLINT
03415 template<> struct ConwayPolynomial<163, 9> { using ZPZ = aerobus::zpz<163>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<162>, ZPZV<167>, ZPZV<161»;
                               }; // NOLINT
 03416 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>
03417 template<> struct ConwayPolynomial<163, 11> { using ZPZ = aerobus::zpz<163>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<11>, ZPZV<161»; }; // NOLINT
03418 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
03419 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</pre>
 03420 template<> struct ConwayPolynomial<163, 17> { 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<71>, ZPZV<161»; }; // NOLINT 03421 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<8>, ZPZV<8</pre>
03422 template<> struct ConwayPolynomial<167, 1> { using ZPZ = aerobus::zpz<167>; using type =
                             POLYV<ZPZV<1>, ZPZV<162»; }; // NOLINT
03423 template<> struct ConwayPolynomial</pr>
167, 2> { using ZPZ = aerobus::zpz<167>; using type = POLYV<ZPZV<1>, ZPZV<166>, ZPZV<5»; }; // NOLINT</pre>
03424 template<> struct ConwayPolynomial<167, 3> { using ZPZ = aerobus::zpz<167>; using type =
                              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<162»; }; // NOLINT
03425 template<> struct ConwayPolynomial<167, 4> { using ZPZ = aerobus::zpz<167>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<120>, ZPZV<5»; }; // NOLINT
03426 template<> struct ConwayPolynomial<167, 5> { using ZPZ = aerobus::zpz<167>; using type =
POLYY<ZPZY<1>, ZPZY<0>, ZPZY<0>, ZPZY<0>, ZPZY<3>, ZPZY<162s; }; // NOLINT
03427 template<> struct ConwayPolynomial<167, 6> { using ZPZ = aerobus::zpz<167>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<75>, ZPZV<38>, ZPZV<2>, ZPZV<5»; };
 03428 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<0>, ZPZV<0>, ZPZV<10>, ZPZV<10>
 03429 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
 03430 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<0>, ZPZV<0>, ZPZV<0>, ZPZV<165>, ZPZV<162>, ZPZV<162>, ZPZV<165>, Z
                                }; // NOLINT
 03431 template<> struct ConwayPolynomial<167, 10> { using ZPZ = aerobus::zpz<167>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<85>, ZPZV<68>, ZPZV<109>, ZPZV<143>, ZPZV<148>, ZPZV<5»; }; // NOLINT
03432 template<> struct ConwayPolynomial<167, 11> { using ZPZ = aerobus::zpz<167>; using type =
                             POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03433 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<142>, ZPZV<142>, ZPZV<141>, ZPZV
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03434 template<> struct ConwayPolynomial<167, 13> { using ZPZ = aerobus::zpz<167>; using type
                          POLÝV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<162»; }; // NOLINT

03435 template<> struct ConwayPolynomial<167, 17> { using ZPZ = aerobus::zpz<167>; using type =
POLYV<ZPZV<1>, 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<0>, ZPZV<14>, ZPZV<162»; }; //</pre>
                         NOLINT
03437 template<> struct ConwayPolynomial<173, 1> { using ZPZ = aerobus::zpz<173>; using type =
                         POLYV<ZPZV<1>, ZPZV<171»; }; // NOLINT
03438 template<> struct ConwayPolynomial<173, 2> { using ZPZ = aerobus::zpz<173>; using type =
                         POLYV<ZPZV<1>, ZPZV<169>, ZPZV<2»; }; // NOLINT
 03439 template<> struct ConwayPolynomial<173, 3> { using ZPZ = aerobus::zpz<173>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<171»; }; // NOLINT
03440 template<> struct ConwayPolynomial<173, 4> { using ZPZ = aerobus::zpz<173>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<102>, ZPZV<20; ; // NOLINT
03441 template<> struct ConwayPolynomial<173, 5> { using ZPZ = aerobus::zpz<173>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<171»; }; // NOLINT
 03442 template<> struct ConwayPolynomial<173, 6> { using ZPZ = aerobus::zpz<173>; using type =
                         POLYV<2PZV<1>, 2PZV<0>, 2PZV<1>, 2PZV<27>, ZPZV<134>, ZPZV<107>, ZPZV<2»; }; // NOLINT
03443 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<171»; }; // NOLINT
 03444 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»; }; //
03445 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<56>, ZPZV<104>, ZPZV<104>, ZPZV<104>, ZPZV<171»;
                          }; // NOLINT
03446 template<> struct ConwayPolynomial<173, 10> { using ZPZ = aerobus::zpz<173>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<156>, ZPZV<164>, ZPZV<48>, ZPZV<406>, ZPZV<106>, ZPZV<58>, ZPZV<2»; }; // NOLINT
 03447 template<> struct ConwayPolynomial<173, 11> { using ZPZ = aerobus::zpz<173>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<171»; }; // NOLINT
03448 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»; };</pre>
                                                                                                                                                                   // NOLINT
03449 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»; }; // NOLINT
03450 template<> struct ConwayPolynomial<173, 17> { 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<7>, ZPZV<7>, ZPZV<171»; }; // NOLINT 03451 template<> struct ConwayPolynomial<173, 19> { using ZPZ = aerobus::zpz<173>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                         ZPZV<0>, ZPZV<0</pre>
                         NOLINT
03452 template<> struct ConwayPolynomial<179, 1> { using ZPZ = aerobus::zpz<179>; using type =
                         POLYV<ZPZV<1>, ZPZV<177»; }; // NOLINT
 03453 template<> struct ConwayPolynomial<179, 2> { using ZPZ = aerobus::zpz<179>; using type =
POLYY<ZPZV<1>, ZPZV<172>, ZPZV<2»; }; // NOLINT

03454 template<> struct ConwayPolynomial<179, 3> { using ZPZ = aerobus::zpz<179>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<177»; }; // NOLINT

03455 template<> struct ConwayPolynomial<179, 4> { using ZPZ = aerobus::zpz<179>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<109>, ZPZV<20; ; // NOLINT
03456 template<> struct ConwayPolynomial<179, 5> { using ZPZ = aerobus::zpz<179>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<177»; }; // NOLINT
 03457 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 03458 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<0>, ZPZV<6>, ZPZV<6>, ZPZV<177»; };
                                                                                                                                                                                                                                                                                                                                                                                  // NOLINT
 03459 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
03460 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<64>, ZPZV<177»; };
 03461 template<>
                                                                     struct ConwayPolynomial<179, 10> { using ZPZ = aerobus::zpz<179>; using type
                         POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<115>, ZPZV<71>, ZPZV<150>, ZPZV<49>, ZPZV<87>, ZPZV<2»; }; // NOLINT
03462 template<> struct ConwayPolynomial<179, 11> { using ZPZ = aerobus::zpz<179>; using type = POLYV<2PZV<1>, ZPZV<0>, 
                          ZPZV<28>, ZPZV<177»; };</pre>
                                                                                                                              // NOLINT
 03463 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<44>, ZPZV<76>, ZPZV<8>,
ZPZV<177>, ZPZV<1>, ZPZV<2»; }; // NOLINT

03464 template<> struct ConwayPolynomial<179, 13> { using ZPZ = aerobus::zpz<179>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03465 template<> struct ConwayPolynomial<179, 17>
                                                                                                                                                                                                            { using ZPZ = aerobus::zpz<179>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                          ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<4777»; }; // NOLINT</pre>
03466 template<> struct ConwayPolynomial<179, 19> { using ZPZ = aerobus::zpz<179>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<11>, ZPZV<177»; }; //
```

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03467 template<> struct ConwayPolynomial<181, 1> { using ZPZ = aerobus::zpz<181>; using type =
                       POLYV<ZPZV<1>, ZPZV<179»; }; // NOLINT
 03468 template<> struct ConwayPolynomial<181, 2> { using ZPZ = aerobus::zpz<181>; using type =
POLYV<ZPZV<1>, ZPZV<177>, ZPZV<2»; }; // NOLINT
03469 template<> struct ConwayPolynomial<181, 3> { using ZPZ = aerobus::zpz<181>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<179»; }; // NOLINT
 03470 template<> struct ConwayPolynomial<181, 4> { using ZPZ = aerobus::zpz<181>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<105>, ZPZV<2»; }; // NOLINT
03471 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

03472 template<> struct ConwayPolynomial<181, 6> { using ZPZ = aerobus::zpz<181>; using type =
 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<17>, ZPZV<163>, ZPZV<169>, ZPZV<2»; }; // NOLINT 03473 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<0>, ZPZV<4>, ZPZV<179»; };
 03474 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
03475 template<> struct ConwayPolynomial<181, 9> { using ZPZ = aerobus::zpz<181>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<11>, ZPZV<107>, ZPZV<168>, ZPZV<179»;
                        }; // NOLINT
03476 template<> struct ConwayPolynomial<181, 10> { using ZPZ = aerobus::zpz<181>; using type }
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<154>, ZPZV<104>, ZPZV<94>, ZPZV<57>, ZPZV<88>, ZPZV<2»; }; // NOLINT
03477 template<> struct ConwayPolynomial<181, 11> { using ZPZ = aerobus::zpz<181>; using type
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03478 template<> struct ConwayPolynomial<181, 12> { using ZPZ = aerobus::zpz<181>; using type
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<171>, ZPZV<141>, ZPZV<45>, ZPZV<122>,
ZPZV<175>, ZPZV<12>, ZPZV<10>, ZPZV<2»; }; // NOLINT
03479 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</pre>
 03480 template<> struct ConwayPolynomial<181, 17> { using ZPZ = aerobus::zpz<181>; 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<179»; }; // NOLINT 03481 template<> struct ConwayPolynomial<181, 19> { using ZPZ = aerobus::zpz<181>; using type :
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                        ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<179»; }; //</pre>
03482 template<> struct ConwayPolynomial<191, 1> { using ZPZ = aerobus::zpz<191>; using type =
                       POLYV<ZPZV<1>, ZPZV<172»; }; // NOLINT
 03483 template<> struct ConwayPolynomial<191, 2> { using ZPZ = aerobus::zpz<191>; using type =
POLYV<ZPZV<1>, ZPZV<190>, ZPZV<19s; }; // NOLINT
03484 template<> struct ConwayPolynomial<191, 3> { using ZPZ = aerobus::zpz<191>; using type =
                                                                                                                                                                                                              // NOLINT
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<172»; };
 03485 template<> struct ConwayPolynomial<191, 4> { using ZPZ = aerobus::zpz<191>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<100>, ZPZV<19»; }; // NOLINT
03486 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
03487 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
 03488 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»; };
 03489 template<> struct ConwayPolynomial<191, 8> { using ZPZ = aerobus::zpz<191>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<164>, ZPZV<139>, ZPZV<171>, ZPZV<19»; }; //
 03490 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<6>, ZPZV<62>, ZPZV<124>, ZPZV<172»;
                        }; // NOLINT
03491 template<> struct ConwayPolynomial<191, 10> { using ZPZ = aerobus::zpz<191>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<113>, ZPZV<47>, ZPZV<173>, ZPZV<74>, ZPZV<156>, ZPZV<19»; }; // NOLINT
 03492 template<> struct ConwayPolynomial<191, 11> { using ZPZ = aerobus::zpz<191>; using type
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                        ZPZV<6>, ZPZV<172»; }; // NOLINT</pre>
 03493 template<> struct ConwayPolynomial<191, 12> { using ZPZ = aerobus::zpz<191>; using type
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<768>, ZPZV<25>, ZPZV<49>, ZPZV<90>,
                        ZPZV<7>, ZPZV<151>, ZPZV<19»; }; // NOLINT</pre>
 03494 template<> struct ConwayPolynomial<191, 13> { using ZPZ = aerobus::zpz<191>; using type
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<172»; }; // NOLINT
03495 template<> struct ConwayPolynomial<191, 17> { 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<2>, ZPZV<172*; }; // NOLINT 03496 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<0>, ZPZV<0>, ZPZV<190>, ZPZV<190>, ZPZV<2>, ZPZV<172»; }; //</pre>
                        NOLTNT
03497 template<> struct ConwayPolynomial<193, 1> { using ZPZ = aerobus::zpz<193>; using type =
                       POLYV<ZPZV<1>, ZPZV<188»; }; // NOLINT
 03498 template<> struct ConwayPolynomial<193, 2> { using ZPZ = aerobus::zpz<193>; using type =
                       POLYV<ZPZV<1>, ZPZV<192>, ZPZV<5»; }; // NOLINT
 03499 template<> struct ConwayPolynomial<193, 3> { using ZPZ = aerobus::zpz<193>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<188»; }; // NOLINT
03500 template<> struct ConwayPolynomial<193, 4> { using ZPZ = aerobus::zpz<193>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<148>, ZPZV<5»; }; // NOLINT
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03501 template<> struct ConwayPolynomial<193, 5> { using ZPZ = aerobus::zpz<193>; using type =
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<188»; }; // NOLINT
 03502 template<> struct ConwayPolynomial<193, 6> { using ZPZ = aerobus::zpz<193>; using type =
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<149>, ZPZV<8>, ZPZV<172>, ZPZV<5»; }; // NOLINT
03503 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<8>, ZPZV<188»; }; // 1
                                                                                                                                                                                                                                                                                           // NOLTNT
 03504 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<15*; //
03505 template<> struct ConwayPolynomial<193, 9> { using ZPZ = aerobus::zpz<193>; using type =
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<168>, ZPZV<27>, ZPZV<188»;
                    }; // NOLINT
03506 template<> struct ConwayPolynomial<193, 10> { using ZPZ = aerobus::zpz<193>; using type =
                    POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<20>, ZPZV<51>, ZPZV<77>, ZPZV<70>, ZPZV<89>,
                    ZPZV<5»; }; // NOLINT</pre>
03507 template<> struct ConwayPolynomial<193, 11> { using ZPZ = aerobus::zpz<193>; using type =
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<188»; }; // NOLINT
03508 template<> struct ConwayPolynomial<193, 12> { using ZPZ = aerobus::zpz<193>; using type
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<155>, ZPZV<155>, ZPZV<135>, ZPZV<135>, ZPZV<155>,
                    ZPZV<90>, ZPZV<46>, ZPZV<28>, ZPZV<5»; }; // NOLINT</pre>
03509 template<> struct ConwayPolynomial<193, 13> { 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>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<188»; }; // NOLINT</pre>
03511 template<> struct ConwayPolynomial<193, 19> { using ZPZ = aerobus::zpz<193>; using type =
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                   NOLINT
03512 template<> struct ConwayPolynomial<197, 1> { using ZPZ = aerobus::zpz<197>; using type =
                   POLYV<ZPZV<1>, ZPZV<195»; }; // NOLINT
 03513 template<> struct ConwayPolynomial<197, 2> { using ZPZ = aerobus::zpz<197>; using type =
POLYV<ZPZV<1>, ZPZV<192, ZPZV<2»; }; // NOLINT
03514 template<> struct ConwayPolynomial<197, 3> { using ZPZ = aerobus::zpz<197>; using type =
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<195»; }; // NOLINT
 03515 template<> struct ConwayPolynomial<197, 4> { using ZPZ = aerobus::zpz<197>; using type =
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<16>, ZPZV<124>, ZPZV<2»; }; // NOLINT
 03516 template<> struct ConwayPolynomial<197, 5> { using ZPZ = aerobus::zpz<197>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<49, ZPZV<49; // NOLINT
03517 template<> struct ConwayPolynomial<197, 6> { using ZPZ = aerobus::zpz<197>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<124>, ZPZV<79>, ZPZV<713>, ZPZV<29; }; // NOLINT 03518 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
 03519 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»; }; //
                   NOLINT
03520 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<13>, ZPZV<12>, ZPZV<12>, ZPZV<8>, ZPZV<195»;
 03521 template<> struct ConwayPolynomial<197, 10> { using ZPZ = aerobus::zpz<197>; using type =
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<121>, ZPZV<137>, ZPZV<8>, ZPZV<73>, ZPZV<42>,
                    ZPZV<2»; }; // NOLINT</pre>
03522 template<> struct ConwayPolynomial<197, 11> { using ZPZ = aerobus::zpz<197>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<195»; }; // NOLINT
 03523 template<> struct ConwayPolynomial<197, 12> { using ZPZ = aerobus::zpz<197>; using type =
                    POLÝV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<168>, ZPZV<15>, ZPZV<130>, ZPZV<141>, ZPZV<9>,
                   ZPZV<90>, ZPZV<163>, ZPZV<2»; }; // NOLINT</pre>
03524 template<> struct ConwayPolynomial<197, 13> { using ZPZ = aerobus::zpz<197>; using type =
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                    ZPZV<0>, ZPZV<0>, ZPZV<39>, ZPZV<195»; }; // NOLINT</pre>
 03525 template<> struct ConwayPolynomial<197, 17> { using ZPZ = aerobus::zpz<197>; using type =
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                   03526 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>, ZPZV<6>, ZPZV<6>, ZPZV<6</pre>
                   NOLINT
 03527 template<> struct ConwayPolynomial<199, 1> { using ZPZ = aerobus::zpz<199>; using type =
                   POLYV<ZPZV<1>, ZPZV<196»; }; // NOLINT
 03528 template<> struct ConwayPolynomial<199, 2> { using ZPZ = aerobus::zpz<199>; using type =
POLYY<ZPZV<1>, ZPZV<193>, ZPZV<3»; }; // NOLINT
03529 template<> struct ConwayPolynomial<199, 3> { using ZPZ = aerobus::zpz<199>; using type =
                   POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<196»; }; // NOLINT
 03530 template<> struct ConwayPolynomial<199, 4> { using ZPZ = aerobus::zpz<199>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<162>, ZPZV<3»; }; // NOLINT
03531 template<> struct ConwayPolynomial<199, 5> { using ZPZ = aerobus::zpz<199>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<196»; }; // NOLINT

03532 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
 03533 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»; };
 03534 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»; }; //
                   NOLTNT
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03535 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
 03536 template<> struct ConwayPolynomial<199, 10> { using ZPZ = aerobus::zpz<199>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5+, ZPZV<5+, ZPZV<54>, ZPZV<54>, ZPZV<5+, ZPZV
                           ZPZV<3»; }; // NOLINT
 03537 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>
03538 template<> struct ConwayPolynomial<199, 12> { using ZPZ = aerobus::zpz<199>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<33>, ZPZV<192>, ZPZV<197>, ZPZV<138>,
ZPZV<69>, ZPZV<57>, ZPZV<151>, ZPZV<3»; }; // NOLINT
03539 template<> struct ConwayPolynomial<199, 13> { using ZPZ = aerobus::zpz<199>; using type
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                           ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<196»; }; // NOLINT</pre>
03540 template<> struct ConwayPolynomial<199, 17> { using ZPZ = aerobus::zpz<199>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0 , ZPZV<0
                           ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<196»; }; //</pre>
                          NOLINT
03542 template<> struct ConwayPolynomial<211, 1> { using ZPZ = aerobus::zpz<211>; using type =
                         POLYV<ZPZV<1>, ZPZV<209»; }; // NOLINT
03543 template<> struct ConwayPolynomial<211, 2> { using ZPZ = aerobus::zpz<211>; using type =
                         POLYV<ZPZV<1>, ZPZV<207>, ZPZV<2»; }; // NOLINT
 03544 template<> struct ConwayPolynomial<211, 3> { using ZPZ = aerobus::zpz<211>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<209»; }; // NOLINT
03545 template<> struct ConwayPolynomial<211, 4> { using ZPZ = aerobus::zpz<211>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<161>, ZPZV<2»; }; // NOLINT
03546 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
 03547 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
 03548 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<3>, ZPZV<209»; };
03549 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»; }; //
03550 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<19>, ZPZV<139>, ZPZV<139>, ZPZV<26>, ZPZV<209»;
                           ); // NOLINT
03551 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<16>, ZPZV<148>, ZPZV<148>, ZPZV<148>, ZPZV<125>,
                          ZPZV<2»; }; // NOLINT</pre>
03552 template<> struct ConwayPolynomial<211, 11> { using ZPZ = aerobus::zpz<211>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03553 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<2»; };</pre>
                                                                                                                                                                   // NOLINT
 03554 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
03555 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<12>, ZPZV<209»; }; // NOLINT</pre>
 03556 template<> struct ConwayPolynomial<211, 19> { using ZPZ = aerobus::zpz<211>; 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<17>, ZPZV<209; }; //</pre>
                          NOLINT
03557 template<> struct ConwayPolynomial<223, 1> { using ZPZ = aerobus::zpz<223>; using type =
                          POLYV<ZPZV<1>, ZPZV<220»; }; // NOLINT
 03558 template<> struct ConwayPolynomial<223, 2> { using ZPZ = aerobus::zpz<223>; using type =
                         POLYV<ZPZV<1>, ZPZV<221>, ZPZV<3»; }; // NOLINT
 03559 template<> struct ConwayPolynomial<223, 3> { using ZPZ = aerobus::zpz<223>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<220»; }; // NOLINT

03560 template<> struct ConwayPolynomial<223, 4> { using ZPZ = aerobus::zpz<223>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<163>, ZPZV<3»; }; // NOLINT

03561 template<> struct ConwayPolynomial<223, 5> { using ZPZ = aerobus::zpz<223>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<220»; }; // NOLINT
 03562 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 03563 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<220»; };
                                                                                                                                                                                                                                                                                                                                                                                          // NOLINT
 03564 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»; };
03565 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
03566 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</pre>
03567 template<> struct ConwayPolynomial<223, 11> { using ZPZ = aerobus::zpz<223>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
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03568 template<> struct ConwayPolynomial<223, 12> { using ZPZ = aerobus::zpz<223>; using type
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<64>, ZPZV<94>, ZPZV<94>, ZPZV<11>, ZPZV<105>, ZPZV<64>,
                           ZPZV<151>, ZPZV<213>, ZPZV<3»; };  // NOLINT</pre>
 03569 template<> struct ConwayPolynomial<223, 13> { using ZPZ = aerobus::zpz<223>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<0>, ZPZV<23>, ZPZV<220»; }; // NOLINT

03570 template<> struct ConwayPolynomial<223, 17> { using ZPZ = aerobus::zpz<223>; 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>,
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03572 template<> struct ConwayPolynomial<227, 1> { using ZPZ = aerobus::zpz<227>; using type =
                           POLYV<ZPZV<1>, ZPZV<225»; }; // NOLINT
03573 template<> struct ConwayPolynomial<227, 2> { using ZPZ = aerobus::zpz<227>; using type = POLYV<ZPZV<1>, ZPZV<220>, ZPZV<2»; }; // NOLINT
03574 template<> struct ConwayPolynomial<227, 3> { using ZPZ = aerobus::zpz<227>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<225»; }; // NOLINT
03575 template<> struct ConwayPolynomial<227, 4> { using ZPZ = aerobus::zpz<227>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<143>, ZPZV<2»; }; // NOLINT
03576 template<> struct ConwayPolynomial<227, 5> { using ZPZ = aerobus::zpz<227>; using type =
                          03577 template<> struct ConwayPolynomial<227, 6> { using ZPZ = aerobus::zpz<227>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<174>, ZPZV<24>, ZPZV<135>, ZPZV<2»; }; // NOLINT
 03578 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<18>, ZPZV<225»; };
 03579 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»; }; //
                           NOLINT
03580 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<2>, ZPZV<24>, ZPZV<24>, ZPZV<183>, ZPZV<225»;
 03581 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<12>, ZPZV<93>, ZPZV<77>, ZPZV<2»; }; // NOLINT
03582 template<> struct ConwayPolynomial<227, 11> { using ZPZ = aerobus::zpz<227>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
 03583 template<> struct ConwayPolynomial<227, 12> { using ZPZ = aerobus::zpz<227>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<123>, ZPZV<99>, ZPZV<160>, ZPZV<96>,
ZPZV<127>, ZPZV<142>, ZPZV<94>, ZPZV<2»; }; // NOLINT

03584 template<> struct ConwayPolynomial<227, 13> { using ZPZ = aerobus::zpz<227>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>,
                           ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<225»; }; // NOLINT</pre>
03585 template<> struct ConwayPolynomial<227, 17> { 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<8>, ZPZV<225»; }; // NOLINT
03586 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<0>, ZPZV<0>, ZPZV<0>, ZPZV<3+, ZPZV<3+, ZPZV<3+, ZPZV<3+</pre>
 03587 template<> struct ConwayPolynomial<229, 1> { using ZPZ = aerobus::zpz<229>; using type =
                          POLYV<ZPZV<1>, ZPZV<223»; }; // NOLINT
03588 template<> struct ConwayPolynomial<229, 2> { using ZPZ = aerobus::zpz<229>; using type =
 POLYV<ZPZV<1>, ZPZV<228>, ZPZV<6»; }; // NOLINT
03589 template<> struct ConwayPolynomial<229, 3> { using ZPZ = aerobus::zpz<229>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<223»; }; // NOLINT
 03590 template<> struct ConwayPolynomial<229, 4> { using ZPZ = aerobus::zpz<229>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<162>, ZPZV<6»; }; // NOLINT
03591 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
 03592 template<> struct ConwayPolynomial<229, 6> { using ZPZ = aerobus::zpz<229>; using type =
                           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<24>, ZPZV<160>, ZPZV<186>, ZPZV<6»; }; // NOLINT
03593 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<23»; };
 03594 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»; }; //
 03595 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»;
                            }; // NOLINT
03596 template<> struct ConwayPolynomial<229, 10> { using ZPZ = aerobus::zpz<2299; 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
 03597 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>
03598 template<> struct ConwayPolynomial<229, 12> { using ZPZ = aerobus::zpz<229>; using type =
                          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<131>, ZPZV<140>, ZPZV<25, ZPZV<6>, ZPZV<172>, ZPZV<172>, ZPZV<9>, ZPZV<6>; }; // NOLINT
03599 template<> struct ConwayPolynomial<229, 13> { using ZPZ = aerobus::zpz<229>; using type
                            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                            ZPZV<0>, ZPZV<0>, ZPZV<47>, ZPZV<223»; };</pre>
                                                                                                                                                                                                                   // NOLINT
03600 template<> struct ConwayPolynomial<229, 17> { using ZPZ = aerobus::zpz<229>; using type =
                          POLYVCZPZVC1>, ZPZVC0>, ZPZVC0
```

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03601 template<> struct ConwayPolynomial<229, 19> { 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<2>, ZPZV<223»; }; //</pre>
                         NOLINT
 03602 template<> struct ConwayPolynomial<233, 1> { using ZPZ = aerobus::zpz<233>; using type =
                         POLYV<ZPZV<1>, ZPZV<230»; }; // NOLINT
 03603 template<> struct ConwayPolynomial<233, 2> { using ZPZ = aerobus::zpz<233>; using type =
                         POLYV<ZPZV<1>, ZPZV<232>, ZPZV<3»; };
                                                                                                                                                                                     // NOLINT
 03604 template<> struct ConwayPolynomial<233, 3> { using ZPZ = aerobus::zpz<233>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<230»; }; // NOLINT
03605 template<> struct ConwayPolynomial<233, 4> { using ZPZ = aerobus::zpz<233>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<158>, ZPZV<3»; }; // NOLINT
03606 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
 03607 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<3»; }; // NOLINT 03608 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<4>, ZPZV<4>, ZPZV<23%; }; // 103609 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»; }; //
 03610 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<56>, ZPZV<146>, ZPZV<230»;
                          }: // NOLINT
 03611 template<> struct ConwayPolynomial<233, 10> { using ZPZ = aerobus::zpz<233>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<28>, ZPZV<71>, ZPZV<102>, ZPZV<3>, ZPZV<48>,
                          ZPZV<3»; }; // NOLINT</pre>
 03612 template<> struct ConwayPolynomial<233, 11> { using ZPZ = aerobus::zpz<233>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                         ZPZV<5>, ZPZV<230»; }; // NOLINT</pre>
03613 template<> struct ConwayPolynomial<233, 12> { using ZPZ = aerobus::zpz<233>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<21>, ZPZV<114>, ZPZV<31>, ZPZV<31>, ZPZV<31>,
                          ZPZV<216>, ZPZV<20>, ZPZV<3»; }; // NOLINT</pre>
 03614 template<> struct ConwayPolynomial<233, 13> { 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<0>, ZPZV<4>, ZPZV<230»; }; // NOLINT</pre>
03616 template<> struct ConwayPolynomial<233, 19> { using ZPZ = aerobus::zpz<233>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                         ZPZV<0>, ZPZV<25>, ZPZV<230»; }; //</pre>
                         NOLINT
03617 template<> struct ConwayPolynomial<239, 1> { using ZPZ = aerobus::zpz<239>; using type =
                         POLYV<ZPZV<1>, ZPZV<232»; }; // NOLINT
 03618 template<> struct ConwayPolynomial<239, 2> { using ZPZ = aerobus::zpz<239>; using type =
                         POLYV<ZPZV<1>, ZPZV<237>, ZPZV<7»; }; // NOLINT
 03619 template<> struct ConwayPolynomial<239, 3> { using ZPZ = aerobus::zpz<239>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<232»; }; // NOLINT
 03620 template<> struct ConwayPolynomial<239, 4> { using ZPZ = aerobus::zpz<239>; using type =
 POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<132>, ZPZV<1»; }; // NOLINT
03621 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
03622 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 03623 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<1>, ZPZV<17>, ZPZV<232»; }; // NOLINT
 03624 template<> struct ConwayPolynomial<239, 8> { using ZPZ = aerobus::zpz<239>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<201>, ZPZV<202>, ZPZV<54>, ZPZV<54>, ZPZV<7»; }; //
                         NOLINT
03625 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<88>, ZPZV<232»; };
                           // NOLINT
 03626 template<> struct ConwayPolynomial<239, 10> { using ZPZ = aerobus::zpz<239>; using type
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<57>, ZPZV<68>, ZPZV<226>, ZPZV<127>,
                         ZPZV<108>, ZPZV<7»; }; // NOLINT</pre>
03627 template<> struct ConwayPolynomial<239, 11> { using ZPZ = aerobus::zpz<239>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
 03628 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<81>, ZPZV<216>, ZPZV<7»; }; // NOLINT
 03629 template<> struct ConwayPolynomial<239, 13> { using ZPZ = aerobus::zpz<239>; using type =
                         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<232»; }; // NOLINT
03630 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<9>, ZPZV<9>, ZPZV<232_{\rm s}; // NOLINT 03631 template<> struct ConwayPolynomial<239, 19> { using ZPZ = aerobus::zpz<239>; using type
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03632 template<> struct ConwayPolynomial<241, 1> { using ZPZ = aerobus::zpz<241>; using type =
                        POLYV<ZPZV<1>, ZPZV<234»; }; // NOLINT
 03633 template<> struct ConwayPolynomial<241, 2> { using ZPZ = aerobus::zpz<241>; using type =
POLYV<ZPZV<1>, ZPZV<238>, ZPZV<7»; }; // NOLINT
03634 template<> struct ConwayPolynomial<241, 3> { using ZPZ = aerobus::zpz<241>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<234»; };
 03635 template<> struct ConwayPolynomial<241, 4> { using ZPZ = aerobus::zpz<241>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<152>, ZPZV<7»; }; // NOLINT
03636 template<> struct ConwayPolynomial<241, 5> { using ZPZ = aerobus::zpz<241>; using type =
                      03637 template<> struct ConwayPolynomial<241, 6> { using ZPZ = aerobus::zpz<241>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<83>, ZPZV<6>, ZPZV<5>, ZPZV<7»; }; // NOLINT
 03638 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<0>, ZPZV<2>, ZPZV<234»; };
 03639 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<153>, ZPZV<7»; }; //
                        NOLINT
03640 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<0>, ZPZV<236>, ZPZV<236>, ZPZV<225>, ZPZV<234»;
                         }; // NOLINT
03641 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>
03642 template<> struct ConwayPolynomial<241, 11> { using ZPZ = aerobus::zpz<241>; using type
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                        ZPZV<3>, ZPZV<234»; }; // NOLINT</pre>
03643 template<> struct ConwayPolynomial<241, 12> { using ZPZ = aerobus::zpz<241>; using type = aerobus::zpz<241>;
                       POLYV<ZPZV<1>, 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
03644 template<> struct ConwayPolynomial<241, 13> { using ZPZ = aerobus::zpz<241>; using type
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
                        ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<234»; }; // NOLINT</pre>
 03645 template<> struct ConwayPolynomial<241, 17> { using ZPZ = aerobus::zpz<241>; 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<1>, ZPZV<11</pre>, ZPZV<234»; }; //</pre>
                        NOLINT
03647 template<> struct ConwayPolynomial<251, 1> { using ZPZ = aerobus::zpz<251>; using type =
                       POLYV<ZPZV<1>, ZPZV<245»; }; // NOLINT
03648 template<> struct ConwayPolynomial<251, 2> { using ZPZ = aerobus::zpz<251>; using type =
                       POLYV<ZPZV<1>, ZPZV<242>, ZPZV<6»; }; // NOLINT
 03649 template<> struct ConwayPolynomial<251, 3> { using ZPZ = aerobus::zpz<251>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<245»; }; // NOLINT
 03650 template<> struct ConwayPolynomial<251, 4> { using ZPZ = aerobus::zpz<251>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<200>, ZPZV<6»; }; // NOLINT
03651 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
 03652 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»; };
 03653 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<8>, ZPZV<245»; }; // NOLINT
03654 template<> struct ConwayPolynomial<251, 8> { using 2PZ = aerobus::zpz<251>; using type = POLYV<2PZV<1>, 2PZV<0>, 2PZV<0>, 2PZV<0>, 2PZV<7>, 2PZV<142>, 2PZV<215>, 2PZV<173>, 2PZV<6»; }; //
 03655 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<187>, ZPZV<106>, ZPZV<245»;
                         }; // NOLINT
03656 template<> struct ConwayPolynomial<251, 10> { using ZPZ = aerobus::zpz<251>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3+>, ZPZV<110>, ZPZV<45>, ZPZV<34>, ZPZV<149>, ZPZV<6»; }; // NOLINT
 03657 template<> struct ConwayPolynomial<251, 11> { using ZPZ = aerobus::zpz<251>; using type =
                       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03658 template<> struct ConwayPolynomial<251, 12> { using ZPZ = aerobus::zpz<251>; using type =
                        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<19>, ZPZV<53>, ZPZV<20>, ZPZV<20>, ZPZV<15>,
                        ZPZV<201>, ZPZV<232>, ZPZV<6»; }; // NOLINT</pre>
 03659 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>
03660 template<> struct ConwayPolynomial<251, 17> { using ZPZ = aerobus::zpz<251>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
 03661 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<2+s, ZPZV<2+s
                        NOLINT
03662 template<> struct ConwayPolynomial<257, 1> { using ZPZ = aerobus::zpz<257>; using type =
                       POLYV<ZPZV<1>, ZPZV<254»; }; // NOLINT
 03663 template<> struct ConwayPolynomial<257, 2> { using ZPZ = aerobus::zpz<257>; using type =
POLYV<ZPZV<1>, ZPZV<251>, ZPZV<3»; }; // NOLINT
03664 template<> struct ConwayPolynomial<257, 3> { using ZPZ = aerobus::zpz<257>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<254»; }; // NOLINT
03665 template<> struct ConwayPolynomial<257, 4> { using ZPZ = aerobus::zpz<257>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<16>, ZPZV<187>, ZPZV<3»; }; // NOLINT
03666 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
 03667 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 03668 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<31>, ZPZV<254»; }; //
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03669 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
 03670 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<1>, ZPZV<201>, ZPZV<201>, ZPZV<50>, ZPZV<254»;
                     }; // NOLINT
03671 template<> struct ConwayPolynomial<257, 10> { using ZPZ = aerobus::zpz<257>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<22>, ZPZV<12>, ZPZV<225>, ZPZV<180>, ZPZV<20>,
                     ZPZV<3»; }; // NOLINT</pre>
 03672 template<> struct ConwayPolynomial<257, 11> { using ZPZ = aerobus::zpz<257>; using type =
                    POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03673 template<> struct ConwayPolynomial<257, 12> { using ZPZ = aerobus::zpz<257>; using type
                     POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<23>, ZPZV<225>, ZPZV<215>, ZPZV<173>,
                     ZPZV<249>, ZPZV<148>, ZPZV<20>, ZPZV<3»; }; // NOLINT</pre>
03674 template<> struct ConwayPolynomial<257, 13> { 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>; // NOLINT

03675 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<8>, ZPZV<254»; }; // NOLINT 03676 template<> struct ConwayPolynomial<257, 19> { 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<10>, ZPZV<254»; }; //</pre>
                    NOLINT
 03677 template<> struct ConwayPolynomial<263, 1> { using ZPZ = aerobus::zpz<263>; using type =
                    POLYV<ZPZV<1>, ZPZV<258»; }; // NOLINT
 03678 template<> struct ConwayPolynomial<263, 2> { using ZPZ = aerobus::zpz<263>; using type =
                    POLYV<ZPZV<1>, ZPZV<261>, ZPZV<5»; }; // NOLINT
03679 template<> struct ConwayPolynomial<263, 3> { using ZPZ = aerobus::zpz<263>; using type =
                    POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<258»; }; // NOLINT
03680 template<> struct ConwayPolynomial<263, 4> { using ZPZ = aerobus::zpz<263>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<171>, ZPZV<5»; }; // NOLINT
03681 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
03682 template<> struct ConwayPolynomial<263, 6> { using ZPZ = aerobus::zpz<263>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<22>, ZPZV<25>, ZPZV<25>, ZPZV<5»; }; // NOLINT 03683 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<0>, ZPZV<1>, ZPZV<258»; };
 03684 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»; }; //
                    NOLINT
03685 template<> struct ConwayPolynomial<263, 9> { using ZPZ = aerobus::zpz<263>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<26>, ZPZV<261>, ZPZV<29>, ZPZV<258»;
 03686 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<5»; }; // NOLINT
03687 template<> struct ConwayPolynomial<263, 11> { using ZPZ = aerobus::zpz<263>; using type =
                    POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
 03688 template<> struct ConwayPolynomial<263, 12> { using ZPZ = aerobus::zpz<263>; using type =
                    POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<172>, ZPZV<174>, ZPZV<162>, ZPZV<252>,
ZPZV<47>, ZPZV<45>, ZPZV<180>, ZPZV<5»; }; // NOLINT
03689 template<> struct ConwayPolynomial<269, 1> { using ZPZ = aerobus::zpz<269>; using type =
                    POLYV<ZPZV<1>, ZPZV<267»; }; // NOLINT
 03690 template<> struct ConwayPolynomial<269, 2> { using ZPZ = aerobus::zpz<269>; using type =
                    POLYV<ZPZV<1>, ZPZV<268>, ZPZV<2»; }; // NOLINT
 03691 template<> struct ConwayPolynomial<269, 3> { using ZPZ = aerobus::zpz<269>; using type =
                    POLYV<ZPZV<1>, ZPZV<0>, ZPZV<9>, ZPZV<267»; }; // NOLINT
03692 template<> struct ConwayPolynomial<269, 4> { using ZPZ = aerobus::zpz<269>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<262>, ZPZV<2»; }; // NOLINT
03693 template<> struct ConwayPolynomial<269, 5> { using ZPZ = aerobus::zpz<269>; using type =
                    POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<267»; }; // NOLINT
 03694 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
 03695 template<> struct ConwayPolynomial<269, 7> { using ZPZ = aerobus::zpz<269>; using type =
                    POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<66, ZPZV<267»; };
 03696 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<2»; }; //
03697 template<> struct ConwayPolynomial<269, 9> { using ZPZ = aerobus::zpz<269>; using type =
                    POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<214>, ZPZV<267>, ZPZV<267»;
                     }; // NOLINT
03698 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</pre>
03699 template<> struct ConwayPolynomial<269, 11> { using ZPZ = aerobus::zpz<269>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
03700 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</pre>
 03701 template<> struct ConwayPolynomial<271, 1> { using ZPZ = aerobus::zpz<271>; using type =
                    POLYV<ZPZV<1>, ZPZV<265»; }; // NOLINT
 03702 template<> struct ConwayPolynomial<271, 2> { using ZPZ = aerobus::zpz<271>; using type =
                    POLYV<ZPZV<1>, ZPZV<269>, ZPZV<6»; }; // NOLINT
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03703 template<> struct ConwayPolynomial<271, 3> { using ZPZ = aerobus::zpz<271>; using type =
                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<265»; }; // NOLINT
03704 template<> struct ConwayPolynomial<271, 4> { using ZPZ = aerobus::zpz<271>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<205>, ZPZV<6>; }; // NOLINT
03705 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
03706 template<> struct ConwayPolynomial<271, 6> { using ZPZ = aerobus::zpz<271>; using type =
                POLYV<2PZV<1>, 2PZV<0>, 2PZV<0>, 2PZV<207>, 2PZV<207>, 2PZV<81>, 2PZV<6»; }; // NOLINT
03707 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<265»; }; // NOLINT
03708 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
03709 template<> struct ConwayPolynomial<271, 9> { using ZPZ = aerobus::zpz<271>; using type =
                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<26>, ZPZV<26 , ZPZV<26
                 }; // NOLINT
03710 template<> struct ConwayPolynomial<271, 10> { using ZPZ = aerobus::zpz<271>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<133>, ZPZV<10>, ZPZV<256>, ZPZV<74>, ZPZV<126>, ZPZV<6»; }; // NOLINT
03711 template<> struct ConwayPolynomial<271, 11> { using ZPZ = aerobus::zpz<271>; using type
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03712 template<> struct ConwayPolynomial<271, 12> { using ZPZ = aerobus::zpz<271>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<20>, ZPZV<162>, ZPZV<210>, ZPZV<210>, ZPZV<205>, ZPZV<205>, ZPZV<237>, ZPZV<256>, ZPZV<130>, ZPZV<6»; }; // NOLINT
03713 template<> struct ConwayPolynomial<277, 1> { using ZPZ = aerobus::zpz<277>; using type =
                POLYV<ZPZV<1>, ZPZV<272»; }; // NOLINT
03714 template<> struct ConwayPolynomial<277, 2> { using ZPZ = aerobus::zpz<277>; using type =
POLYV<ZPZV<1>, ZPZV<274>, ZPZV<5»; }; // NOLINT
03715 template<> struct ConwayPolynomial<277, 3> { using ZPZ = aerobus::zpz<277>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<272»; }; // NOLINT
03716 template<> struct ConwayPolynomial<277, 4> { using ZPZ = aerobus::zpz<277>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<22>, ZPZV<5»; }; // NOLINT
03717 template<> struct ConwayPolynomial<277, 5> { using ZPZ = aerobus::zpz<277>; using type =
               03718 template<> struct ConwayPolynomial<277, 6> { using ZPZ = aerobus::zpz<277>; using type =
POLYV<ZPZV<1>, ZPZV<1>, ZPZV<3>, ZPZV<3>, ZPZV<318>, ZPZV<118>, ZPZV<5»; ); // NOLINT 03719 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<0>, ZPZV<9>, ZPZV<272»; };
03720 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»; }; //
                NOLINT
03721 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<4177>, ZPZV<110>, ZPZV<272»;
03722 template<> struct ConwayPolynomial<277, 10> { using ZPZ = aerobus::zpz<277>; using type
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<241>, ZPZV<260>, ZPZV<253>, ZPZV<237>, ZPZV<241>, ZPZV<260>, ZPZV<5»; }; // NOLINT
03723 template<> struct ConwayPolynomial<277, 11> { using ZPZ = aerobus::zpz<277>; using type =
               POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0
03724 template<> struct ConwayPolynomial<277, 12> { using ZPZ = aerobus::zpz<277>; using type =
                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<183>, ZPZV<218>, ZPZV<240>, ZPZV<40>,
                ZPZV<180>, ZPZV<115>, ZPZV<202>, ZPZV<5»; }; // NOLINT</pre>
03725 template<> struct ConwayPolynomial<281, 1> { using ZPZ = aerobus::zpz<281>; using type =
               POLYV<ZPZV<1>, ZPZV<278»; }; // NOLINT
03726 template<> struct ConwayPolynomial<281, 2> { using ZPZ = aerobus::zpz<281>; using type =
                POLYV<ZPZV<1>, ZPZV<280>, ZPZV<3»; }; // NOLINT
03727 template<> struct ConwayPolynomial<281, 3> { using ZPZ = aerobus::zpz<281>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<278»; }; // NOLINT
03728 template<> struct ConwayPolynomial<281, 4> { using ZPZ = aerobus::zpz<281>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<176>, ZPZV<3»; }; // NOLINT
03729 template<> struct ConwayPolynomial<281, 5> { using ZPZ = aerobus::zpz<281>; using type =
                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<278»; }; // NOLINT
03730 template<> struct ConwayPolynomial<281, 6> { using ZPZ = aerobus::zpz<281>; using type =
                \texttt{POLYV} < \texttt{ZPZV} < 1>, \ \texttt{ZPZV} < 0>, \ \texttt{ZPZV} < 1>, \ \texttt{ZPZV} < 151>, \ \texttt{ZPZV} < 13>, \ \texttt{ZPZV} < 27>, \ \texttt{ZPZV} < 3»; \ \}; \ \ // \ \texttt{NOLINT} 
03731 template<> struct ConwayPolynomial<281, 7> { using ZPZ = aerobus::zpz<281>; using type :
                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<19>, ZPZV<278»; }; // NOLINT
03732 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
03733 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<6>, ZPZV<148>, ZPZV<70>, ZPZV<278»;
                }; // NOLINT
03734 template<> struct ConwayPolynomial<281, 10> { using ZPZ = aerobus::zpz<281>; using type
                POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<258>, ZPZV<145>, ZPZV<13>, ZPZV<138>, ZPZV<191>, ZPZV<3»; }; // NOLINT
03735 template<> struct ConwayPolynomial<281, 11> { using ZPZ = aerobus::zpz<281>; using type = POLYV<ZPZV<1>, ZPZV<0>, 
03736 template<> struct ConwayPolynomial<281, 12> { using ZPZ = aerobus::zpz<281>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<20>, ZPZV<68>, ZPZV<103>, ZPZV<116>,
ZPZV<58>, ZPZV<28>, ZPZV<191>, ZPZV<3»; }; // NOLINT
03737 template<> struct ConwayPolynomial<283, 1> { using ZPZ = aerobus::zpz<283>; using type =
               POLYV<ZPZV<1>, ZPZV<280»; }; // NOLINT
03738 template<> struct ConwayPolynomial<283, 2> { using ZPZ = aerobus::zpz<283>; using type =
                POLYV<ZPZV<1>, ZPZV<282>, ZPZV<3»; };
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03739 template<> struct ConwayPolynomial<283, 3> { using ZPZ = aerobus::zpz<283>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<280»; }; // NOLINT
03740 template<> struct ConwayPolynomial<283, 4> { using ZPZ = aerobus::zpz<283>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<238>, ZPZV<3»; }; // NOLINT
03741 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
03742 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
03743 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<8>, ZPZV<280»; };
03744 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
03745 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<0>, ZPZV<0>, ZPZV<136>, ZPZV<65>, ZPZV<280»;
                }; // NOLINT
03746 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
03747 template<> struct ConwayPolynomial<283, 11> { using ZPZ = aerobus::zpz<283>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
03748 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<26>, ZPZV<49>,
               ZPZV<14>, ZPZV<56>, ZPZV<3»; }; // NOLINT</pre>
03749 template<> struct ConwayPolynomial<293, 1> { using ZPZ = aerobus::zpz<293>; using type =
               POLYV<ZPZV<1>, ZPZV<291»; }; // NOLINT
03750 template<> struct ConwayPolynomial<293, 2> { using ZPZ = aerobus::zpz<293>; using type =
POLYV<ZPZV<1>, ZPZV<292>, ZPZV<2»; }; // NOLINT
03751 template<> struct ConwayPolynomial<293, 3> { using ZPZ = aerobus::zpz<293>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<291»; }; // NOLINT
03752 template<> struct ConwayPolynomial<293, 4> { using ZPZ = aerobus::zpz<293>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<166>, ZPZV<2»; }; // NOLINT
03753 template<> struct ConwayPolynomial<293, 5> { using ZPZ = aerobus::zpz<293>; using type =
               \verb"POLYV<ZPZV<1>, \verb"ZPZV<0>, \verb"ZPZV<0>, \verb"ZPZV<2>, \verb"ZPZV<291"; \verb"}; "/ NOLINT" | NOLINT | 
03754 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<20; }; // NOLINT
03755 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<0>, ZPZV<0>, ZPZV<291»; };
03756 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>, ZPZ
               NOLINT
03757 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<20>, ZPZV<208>, ZPZV<190>, ZPZV<291»;
03758 template<> struct ConwayPolynomial<293, 10> { using ZPZ = aerobus::zpz<293>; using type
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<186>, ZPZV<28>, ZPZV<46>, ZPZV<184>, ZPZV<24>, ZPZV<24>, ZPZV<2»; }; // NOLINT
03759 template<> struct ConwayPolynomial<293, 11> { using ZPZ = aerobus::zpz<293>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
               ZPZV<3>, ZPZV<291»; };</pre>
                                                                         // NOLINT
03760 template<> struct ConwayPolynomial<293, 12> { using ZPZ = aerobus::zpz<293>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<210>, ZPZV<210>, ZPZV<212>,
               ZPZV<167>, ZPZV<144>, ZPZV<157>, ZPZV<2»; }; // NOLINT</pre>
03761 template<> struct ConwayPolynomial<307, 1> { using ZPZ = aerobus::zpz<307>; using type =
              POLYV<ZPZV<1>, ZPZV<302»; }; // NOLINT
03762 template<> struct ConwayPolynomial<307, 2> { using ZPZ = aerobus::zpz<307>; using type =
POLYV<ZPZV<1>, ZPZV<306>, ZPZV<5»; }; // NOLINT
03763 template<> struct ConwayPolynomial<307, 3> { using ZPZ = aerobus::zpz<307>; using type =
              03764 template<> struct ConwayPolynomial<307, 4> { using ZPZ = aerobus::zpz<307>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<239>, ZPZV<5>; // NOLINT
03765 template<> struct ConwayPolynomial<307, 5> { using ZPZ = aerobus::zpz<307>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<302»; }; // NOLINT
03766 template<> struct ConwayPolynomial<307, 6> { using ZPZ = aerobus::zpz<307>; using type =
               \verb"POLYV<2PZV<1>, \ 2PZV<0>, \ 2PZV<0>, \ 2PZV<213>, \ ZPZV<172>, \ ZPZV<61>, \ ZPZV<5»; \ \}; \ // \ \texttt{NOLINT} 
03767 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<0>, ZPZV<6>, ZPZV<6>, ZPZV<302»; };
                                                                                                                                                                                                                          // NOLINT
03768 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»; }; //
03769 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<1>, ZPZV<165>, ZPZV<70>, ZPZV<302»;
               }; // NOLINT
03770 template<> struct ConwayPolynomial<311, 1> { using ZPZ = aerobus::zpz<311>; using type =
              POLYV<ZPZV<1>, ZPZV<294»; }; // NOLINT
03771 template<> struct ConwayPolynomial<311, 2> { using ZPZ = aerobus::zpz<311>; using type =
POLYV<ZPZV<1>, ZPZV<310, ZPZV<17»; }; // NOLINT
03772 template<> struct ConwayPolynomial<311, 3> { using ZPZ = aerobus::zpz<311>; using type =
              POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<294»; }; // NOLINT
03773 template<> struct ConwayPolynomial<311, 4> { using ZPZ = aerobus::zpz<311>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<163>, ZPZV<17»; }; // NOLINT
03774 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
03775 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 03776 template<> struct ConwayPolynomial<311, 7> { using ZPZ = aerobus::zpz<311>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<10>, ZPZV<294»; };
03777 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»; }; //
       NOLINT
03778 template<> struct ConwayPolynomial<311, 9> { using ZPZ = aerobus::zpz<311>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<287>, ZPZV<287>, ZPZV<294»;
       }; // NOLINT
03779 template<> struct ConwayPolynomial<313, 1> { using ZPZ = aerobus::zpz<313>; using type =
       POLYV<ZPZV<1>, ZPZV<303»; }; // NOLINT
03780 template<> struct ConwayPolynomial<313, 2> { using ZPZ = aerobus::zpz<313>; using type =
POLYV<ZPZV<1>, ZPZV<310>, ZPZV<10s; }; // NOLINT
03781 template<> struct ConwayPolynomial<313, 3> { using ZPZ = aerobus::zpz<313>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<303»; }; // NOLINT
03782 template<> struct ConwayPolynomial<313, 4> { using ZPZ = aerobus::zpz<313>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<239>, ZPZV<10»; }; // NOLINT
03783 template<> struct ConwayPolynomial<313, 5> { using ZPZ = aerobus::zpz<313>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<303»; }; // NOLINT
03784 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
03785 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<303»; };
03786 template<> struct ConwayPolynomial<313, 8> { using ZPZ = aerobus::zpz<313>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<306>, ZPZV<99>, ZPZV<106>, ZPZV<10»; }; //
       NOLINT
03787 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<0>, ZPZV<6>, ZPZV<6>, ZPZV<267>, ZPZV<300>, ZPZV<303»;
       }; // NOLINT
03788 template<> struct ConwayPolynomial<317, 1> { using ZPZ = aerobus::zpz<317>; using type =
       POLYV<ZPZV<1>, ZPZV<315»; }; // NOLINT
03789 template<> struct ConwayPolynomial<317, 2> { using ZPZ = aerobus::zpz<317>; using type = POLYV<ZPZV<1>, ZPZV<313>, ZPZV<2»; }; // NOLINT
03790 template<> struct ConwayPolynomial<317, 3> { using ZPZ = aerobus::zpz<317>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<315»; }; // NOLINT
03791 template<> struct ConwayPolynomial<317, 4> { using ZPZ = aerobus::zpz<317>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<178>, ZPZV<2»; }; // NOLINT
03792 template<> struct ConwayPolynomial<317, 5> { using ZPZ = aerobus::zpz<317>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<315s; }; // NOLINT
03793 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
03794 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»; };
03795 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»; }; //
03796 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<0>, ZPZV<0>, ZPZV<284>, ZPZV<296>, ZPZV<315»;
       }; // NOLINT
03797 template<> struct ConwayPolynomial<331, 1> { using ZPZ = aerobus::zpz<331>; using type =
       POLYV<ZPZV<1>, ZPZV<328»; }; // NOLINT
03798 template<> struct ConwayPolynomial<331, 2> { using ZPZ = aerobus::zpz<331>; using type =
       POLYV<ZPZV<1>, ZPZV<326>, ZPZV<3»; }; // NOLINT
03799 template<> struct ConwayPolynomial<331, 3> { using ZPZ = aerobus::zpz<331>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<328»; }; // NOLINT
03800 template<> struct ConwayPolynomial<331, 4> { using ZPZ = aerobus::zpz<331>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<290>, ZPZV<3»; }; // NOLINT
03801 template<> struct ConwayPolynomial<331, 5> { using ZPZ = aerobus::zpz<331>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<328»; }; // NOLINT
03802 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
03803 template<> struct ConwayPolynomial<331, 7> { using ZPZ = aerobus::zpz<331>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<328»; };
03804 template<> struct ConwayPolynomial<331, 8> { using ZPZ = aerobus::zpz<331>; using type = PoLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<24>, ZPZV<308>, ZPZV<78>, ZPZV<3»; }; //
03805 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<194>, ZPZV<210>, ZPZV<328»;
        }; // NOLINT
03806 template<> struct ConwayPolynomial<337, 1> { using ZPZ = aerobus::zpz<337>; using type =
       POLYV<ZPZV<1>, ZPZV<327»; }; // NOLINT
03807 template<> struct ConwayPolynomial<337, 2> { using ZPZ = aerobus::zpz<337>; using type =
POLYV<ZPZV<1>, ZPZV<332>, ZPZV<10»; }; // NOLINT
03808 template<> struct ConwayPolynomial<337, 3> { using ZPZ = aerobus::zpz<337>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<327»; }; // NOLINT
03809 template<> struct ConwayPolynomial<337, 4> { using ZPZ = aerobus::zpz<337>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<25>, ZPZV<224>, ZPZV<10»; }; // NOLINT
03810 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
03811 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»; }; // NOLINT 03812 template<> struct ConwayPolynomial<337, 7> { using ZPZ = aerobus::zpz<337>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<327»; }; // NOLINT
03813 template<> struct ConwayPolynomial<337, 8> { using ZPZ = aerobus::zpz<337>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<331>, ZPZV<246>, ZPZV<251>, ZPZV<10»; }; //
03814 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
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03815 template<> struct ConwayPolynomial<347, 1> { using ZPZ = aerobus::zpz<347>; using type =
      POLYV<ZPZV<1>, ZPZV<345»; }; // NOLINT
03816 template<> struct ConwayPolynomial<347, 2> { using ZPZ = aerobus::zpz<347>; using type =
POLYV<ZPZV<1>, ZPZV<343>, ZPZV<2»; }; // NOLINT
03817 template<> struct ConwayPolynomial<347, 3> { using ZPZ = aerobus::zpz<347>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<9>, ZPZV<345»; }; // NOLINT
03818 template<> struct ConwayPolynomial<347, 4> { using ZPZ = aerobus::zpz<347>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<13>, ZPZV<295>, ZPZV<2»; }; // NOLINT
03819 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
03820 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
03821 template<> struct ConwayPolynomial<347, 7> { using ZPZ = aerobus::zpz<347>; using type
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<345»; };
03822 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»; }; //
      NOLTNT
03823 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<252>, ZPZV<345»;
03824 template<> struct ConwayPolynomial<349, 1> { using ZPZ = aerobus::zpz<349>; using type =
      POLYV<ZPZV<1>, ZPZV<347»; }; // NOLINT
03825 template<> struct ConwayPolynomial<349, 2> { using ZPZ = aerobus::zpz<349>; using type =
POLYV<ZPZV<1>, ZPZV<348>, ZPZV<2»; }; // NOLINT
03826 template<> struct ConwayPolynomial<349, 3> { using ZPZ = aerobus::zpz<349>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<347»; }; // NOLINT
03827 template<> struct ConwayPolynomial<349, 4> { using ZPZ = aerobus::zpz<349>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<279>, ZPZV<2»; }; // NOLINT
03828 template<> struct ConwayPolynomial<349, 5> { using ZPZ = aerobus::zpz<349>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<347»; }; // NOLINT
03829 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»; };
03830 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<10>, ZPZV<347»; };
03831 template<> struct ConwayPolynomial<349, 8> { using ZPZ = aerobus::zpz<349>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<308>, ZPZV<328>, ZPZV<268>, ZPZV<2»; }; //
      NOLINT
03832 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<36>, ZPZV<290>, ZPZV<130>, ZPZV<347»;
      }; // NOLINT
03833 template<> struct ConwayPolynomial<353, 1> { using ZPZ = aerobus::zpz<353>; using type =
      POLYV<ZPZV<1>, ZPZV<350»; }; // NOLINT
03834 template<> struct ConwayPolynomial<353, 2> { using ZPZ = aerobus::zpz<353>; using type =
      POLYV<ZPZV<1>, ZPZV<348>, ZPZV<3»; }; // NOLINT
03835 template<> struct ConwayPolynomial<353, 3> { using ZPZ = aerobus::zpz<353>; using type =
                                                          // NOLINT
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<350»; };
03836 template<> struct ConwayPolynomial<353, 4> { using ZPZ = aerobus::zpz<353>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<199>, ZPZV<3»; }; // NOLINT
03837 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
03838 template<> struct ConwayPolynomial<353, 6> { using ZPZ = aerobus::zpz<353>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<215>, ZPZV<226>, ZPZV<295>, ZPZV<3»; }; // NOLINT
03839 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<0>, ZPZV<16>, ZPZV<350»; };
03840 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»; }; //
03841 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»;
      }; // NOLINT
03842 template<> struct ConwayPolynomial<359, 1> { using ZPZ = aerobus::zpz<359>; using type =
      POLYV<ZPZV<1>, ZPZV<352»; }; // NOLINT
03843 template<> struct ConwayPolynomial<359, 2> { using ZPZ = aerobus::zpz<359>; using type =
                                                // NOLINT
      POLYV<ZPZV<1>, ZPZV<358>, ZPZV<7»; };
03844 template<> struct ConwayPolynomial<359, 3> { using ZPZ = aerobus::zpz<359>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<352»; }; // NOLINT
03845 template<> struct ConwayPolynomial<359, 4> { using ZPZ = aerobus::zpz<359>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<229>, ZPZV<7»; }; // NOLINT
03846 template<> struct ConwayPolynomial<359, 5> { using ZPZ = aerobus::zpz<359>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<352»; }; // NOLINT
03847 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
03848 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»; };
03849 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»; }; //
03850 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<356>, ZPZV<165>, ZPZV<352»;
      ): // NOLINT
03851 template<> struct ConwayPolynomial<367, 1> { using ZPZ = aerobus::zpz<367>; using type =
      POLYV<ZPZV<1>, ZPZV<361»; }; // NOLINT
03852 template<> struct ConwayPolynomial<367, 2> { using ZPZ = aerobus::zpz<367>; using type =
      POLYV<ZPZV<1>, ZPZV<366>, ZPZV<6»; };
                                                // NOLINT
03853 template<> struct ConwayPolynomial<367, 3> { using ZPZ = aerobus::zpz<367>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<10>, ZPZV<361»; }; // NOLINT
03854 template<> struct ConwayPolynomial<367, 4> { using ZPZ = aerobus::zpz<367>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<295>, ZPZV<6»; }; // NOLINT
03855 template<> struct ConwayPolynomial<367, 5> { using ZPZ = aerobus::zpz<367>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<361»; }; // NOLINT
03856 template<> struct ConwayPolynomial<367, 6> { using ZPZ = aerobus::zpz<367>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<22>, ZPZV<21>, ZPZV<324>, ZPZV<6»; }; // NOLINT 03857 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
03858 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»; }; //
               NOLINT
03859 template<> struct ConwayPolynomial<367, 9> { using ZPZ = aerobus::zpz<367>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3, ZPZ
                }: // NOLINT
03860 template<> struct ConwayPolynomial<373, 1> { using ZPZ = aerobus::zpz<373>; using type =
               POLYV<ZPZV<1>, ZPZV<371»; }; // NOLINT
03861 template<> struct ConwayPolynomial<373, 2> { using ZPZ = aerobus::zpz<373>; using type =
POLYV<ZPZV<1>, ZPZV<369>, ZPZV<2»; }; // NOLINT
03862 template<> struct ConwayPolynomial<373, 3> { using ZPZ = aerobus::zpz<373>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<371»; }; // NOLINT
03863 template<> struct ConwayPolynomial<373, 4> { using ZPZ = aerobus::zpz<373>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<15>, ZPZV<304>, ZPZV<2»; }; // NOLINT
03864 template<> struct ConwayPolynomial<373, 5> { using ZPZ = aerobus::zpz<373>; using type =
                \verb"POLYV<ZPZV<1>, \verb"ZPZV<0>, \verb"ZPZV<0>, \verb"ZPZV<2>, \verb"ZPZV<371"; \verb"}; \verb"// NOLINT" | 
03865 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
03866 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<7>, ZPZV<371»; };
03867 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»; }; //
               NOLINT
03868 template<> struct ConwayPolynomial<373, 9> { using ZPZ = aerobus::zpz<373>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<14>, ZPZV<238>, ZPZV<370>, ZPZV<371»;
03869 template<> struct ConwayPolynomial<379, 1> { using ZPZ = aerobus::zpz<379>; using type =
               POLYV<ZPZV<1>, ZPZV<377»; }; // NOLINT
03870 template<> struct ConwayPolynomial<379, 2> { using ZPZ = aerobus::zpz<379>; using type =
               POLYV<ZPZV<1>, ZPZV<374>, ZPZV<2»; }; // NOLINT
03871 template<> struct ConwayPolynomial<379, 3> { using ZPZ = aerobus::zpz<379>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<377»; }; // NOLINT
03872 template<> struct ConwayPolynomial

03872 template<> struct ConwayPolynomial

03873 template

04874 template

04874 template

05874 template

05874 template

05874 template

05875 template

               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<377»; }; // NOLINT
03874 template<> struct ConwayPolynomial<379, 6> { using ZPZ = aerobus::zpz<379>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<374>, ZPZV<364>, ZPZV<246>, ZPZV<2»; }; // NOLINT
03875 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<377»; };
                                                                                                                                                                                                                                   // NOLINT
03876 template<> struct ConwayPolynomial<379, 8> { using ZPZ = aerobus::zpz<379>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<210>, ZPZV<194>, ZPZV<173>, ZPZV<2»; }; //
               NOLINT
03877 template<> struct ConwayPolynomial<379, 9> { using ZPZ = aerobus::zpz<379>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<362>, ZPZV<369>, ZPZV<377»;
                }; // NOLINT
03878 template<> struct ConwayPolynomial<383, 1> { using ZPZ = aerobus::zpz<383>; using type =
               POLYV<ZPZV<1>, ZPZV<378»; }; // NOLINT
03879 template<> struct ConwayPolynomial<383, 2> { using ZPZ = aerobus::zpz<383>; using type =
               POLYV<ZPZV<1>, ZPZV<382>, ZPZV<5»; }; // NOLINT
03880 template<> struct ConwayPolynomial<383, 3> { using ZPZ = aerobus::zpz<383>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<378»; }; // NOLINT
03881 template<> struct ConwayPolynomial<383, 4> { using ZPZ = aerobus::zpz<383>; using type =
POLYV<ZPZV<1>, ZPZV<7>, ZPZV<7>, ZPZV<309>, ZPZV<5»; }; // NOLINT

03882 template</br>

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04882 tem
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<378»; }; // NOLINT
03883 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<5»; }; // NOLINT
03884 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<6 , ZPZV<6
03885 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
03886 template<> struct ConwayPolynomial<383, 9> { using ZPZ = aerobus::zpz<383>; using type =
               POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<137>, ZPZV<76>, ZPZV<378»;
                }; // NOLINT
03887 template<> struct ConwayPolynomial<389, 1> { using ZPZ = aerobus::zpz<389>; using type =
               POLYV<ZPZV<1>, ZPZV<387»; }; // NOLINT
03888 template<> struct ConwayPolynomial<389, 2> { using ZPZ = aerobus::zpz<389>; using type =
               POLYV<ZPZV<1>, ZPZV<379>, ZPZV<2»; };
                                                                                                               // NOLINT
03889 template<> struct ConwayPolynomial<389, 3> { using ZPZ = aerobus::zpz<389>; using type =
               03890 template<> struct ConwayPolynomial<389, 4> ( using ZPZ = aerobus::zpz<389>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<26>, ZPZV<266>, ZPZV<2»; }; // NOLINT
03891 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
03892 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 03893 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<24>, ZPZV<24>, ZPZV<24>, ZPZV<387»; }; // 1
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03894 template<> struct ConwayPolynomial<389, 8> { using ZPZ = aerobus::zpz<389>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<351>, ZPZV<19>, ZPZV<290>, ZPZV<2»; }; //
        NOLTNT
03895 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<258>, ZPZV<308>, ZPZV<387»;
         }; // NOLINT
03896 template<> struct ConwayPolynomial<397, 1> { using ZPZ = aerobus::zpz<397>; using type =
        POLYV<ZPZV<1>, ZPZV<392»; }; // NOLINT
03897 template<> struct ConwayPolynomial<397, 2> { using ZPZ = aerobus::zpz<397>; using type =
POLYV<ZPZV<1>, ZPZV<392>, ZPZV<5»; }; // NOLINT
03898 template<> struct ConwayPolynomial<397, 3> { using ZPZ = aerobus::zpz<397>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<392»; }; // NOLINT
03899 template<> struct ConwayPolynomial<397, 4> { using ZPZ = aerobus::zpz<397>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<363>, ZPZV<5»; }; // NOLINT
03900 template<> struct ConwayPolynomial<397, 5> { using ZPZ = aerobus::zpz<397>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<392»; }; // NOLINT
03901 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 03902 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<0>, ZPZV<12>, ZPZV<392»; };
03903 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»; }; //
        NOLINT
03904 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<5>, ZPZV<5 , Z
         }; // NOLINT
03905 template<> struct ConwayPolynomial<401, 1> { using ZPZ = aerobus::zpz<401>; using type =
        POLYV<ZPZV<1>, ZPZV<398»; }; // NOLINT
03906 template<> struct ConwayPolynomial<401, 2> { using ZPZ = aerobus::zpz<401>; using type =
POLYV<ZPZV<1>, ZPZV<396>, ZPZV<3»; }; // NOLINT

03907 template<> struct ConwayPolynomial<401, 3> { using ZPZ = aerobus::zpz<401>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<398»; }; // NOLINT
03908 template<> struct ConwayPolynomial<401, 4> { using ZPZ = aerobus::zpz<401>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<372>, ZPZV<3»; }; // NOLINT
03909 template<> struct ConwayPolynomial<401, 5> { using ZPZ = aerobus::zpz<401>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<398»; }; // NOLINT
03910 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
03911 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<5>, ZPZV<5>, ZPZV<398»; };
03912 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»; }; //
        NOLINT
03913 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
03914 template<> struct ConwayPolynomial<409, 1> { using ZPZ = aerobus::zpz<409>; using type =
        POLYV<ZPZV<1>, ZPZV<388»; }; // NOLINT
03915 template<> struct ConwayPolynomial<409, 2> { using ZPZ = aerobus::zpz<409>; using type =
POLYY<ZPZV<1>, ZPZV<404>, ZPZV<21»; }; // NOLINT
03916 template<> struct ConwayPolynomial<409, 3> { using ZPZ = aerobus::zpz<409>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<388»; }; // NOLINT
03917 template<> struct ConwayPolynomial<409, 4> { using ZPZ = aerobus::zpz<409>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<407>, ZPZV<21»; }; // NOLINT
03918 template<> struct ConwayPolynomial<409, 5> { using ZPZ = aerobus::zpz<409>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<388x; }; // NOLINT
03919 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
03920 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<7>, ZPZV<7>, ZPZV<388»; };
03921 template<> struct ConwayPolynomial<409, 8> { using ZPZ = aerobus::zpz<409>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<256>, ZPZV<69>, ZPZV<396>, ZPZV<21»; }; //
        NOLINT
03922 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<318>, ZPZV<318>, ZPZV<211>, ZPZV<388»;
         }; // NOLINT
03923 template<> struct ConwayPolynomial<419, 1> { using ZPZ = aerobus::zpz<419>; using type =
        POLYV<ZPZV<1>, ZPZV<417»; }; // NOLINT
03924 template<> struct ConwayPolynomial<419, 2> { using ZPZ = aerobus::zpz<419>; using type =
        POLYV<ZPZV<1>, ZPZV<418>, ZPZV<2»; };
                                                               // NOLINT
03925 template<> struct ConwayPolynomial<419, 3> { using ZPZ = aerobus::zpz<419>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<417»; }; // NOLINT
03926 template<> struct ConwayPolynomial<419, 4> { using ZPZ = aerobus::zpz<419>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<373>, ZPZV<2»; }; // NOLINT
03927 template<> struct ConwayPolynomial<419, 5> { using ZPZ = aerobus::zpz<419>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<417»; }; // NOLINT
03928 template<> struct ConwayPolynomial<419, 6> { using ZPZ = aerobus::zpz<419>; using type
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<411>, ZPZV<33>, ZPZV<257>, ZPŽV<2»; }; // NOLINT
03929 template<> struct ConwayPolynomial<419, 7> { using ZPZ = aerobus::zpz<419>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<417»; };
                                                                                                                                // NOLINT
03930 template<> struct ConwayPolynomial<419, 8> { using ZPZ = aerobus::zpz<419>; using type :
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<38>, ZPZV<388>, ZPZV<151>, ZPZV<2»; }; //
03931 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<93>, ZPZV<93>, ZPZV<386>, ZPZV<417»;
         }: // NOLINT
03932 template<> struct ConwayPolynomial<421, 1> { using ZPZ = aerobus::zpz<421>; using type =
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POLYV<ZPZV<1>, ZPZV<419»; }; // NOLINT
03933 template<> struct ConwayPolynomial<421, 2> { using ZPZ = aerobus::zpz<421>; using type =
        POLYV<ZPZV<1>, ZPZV<417>, ZPZV<2»; }; // NOLINT
03934 template<> struct ConwayPolynomial<421, 3> { using ZPZ = aerobus::zpz<421>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<419»; }; // NOLINT
03935 template<> struct ConwayPolynomial<421, 4> { using ZPZ = aerobus::zpz<421>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<10>, ZPZV<257>, ZPZV<2»; }; // NOLINT
03936 template<> struct ConwayPolynomial<421, 5> { using ZPZ = aerobus::zpz<421>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<419*; }; // NOLINT
03937 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
03938 template<> struct ConwayPolynomial<421, 7> { using ZPZ = aerobus::zpz<421>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0, ZPZV
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<21>, ZPZV<419»; }; // NOLINT
03939 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»; }; //
03940 template<> struct ConwayPolynomial<421, 9> { using ZPZ = aerobus::zpz<421>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<394>, ZPZV<341>, ZPZV<419»;
         }; // NOLINT
03941 template<> struct ConwayPolynomial<431, 1> { using ZPZ = aerobus::zpz<431>; using type =
         POLYV<ZPZV<1>, ZPZV<424»; }; // NOLINT
03942 template<> struct ConwayPolynomial<431, 2> { using ZPZ = aerobus::zpz<431>; using type =
        POLYV<ZPZV<1>, ZPZV<430>, ZPZV<7»; }; // NOLINT
03943 template<> struct ConwayPolynomial<431, 3> { using ZPZ = aerobus::zpz<431>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<424*; }; // NOLINT
03944 template<> struct ConwayPolynomial<431, 4> { using ZPZ = aerobus::zpz<431>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<323>, ZPZV<7»; }; // NOLINT
03945 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
03946 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
03947 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»; };
03948 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»; }; //
         NOLINT
03949 template<> struct ConwayPolynomial<431, 9> { using ZPZ = aerobus::zpz<431>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<71>, ZPZV<329>, ZPZV<424*;
         }; // NOLINT
03950 template<> struct ConwayPolynomial<433, 1> { using ZPZ = aerobus::zpz<433>; using type =
        POLYV<ZPZV<1>, ZPZV<428»; }; // NOLINT
03951 template<> struct ConwayPolynomial<433, 2> { using ZPZ = aerobus::zpz<433>; using type =
POLYV<ZPZV<1>, ZPZV<432>, ZPZV<5»; }; // NOLINT
03952 template<> struct ConwayPolynomial<433, 3> { using ZPZ = aerobus::zpz<433>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<428»; }; // NOLINT
03953 template<> struct ConwayPolynomial<433, 4> { using ZPZ = aerobus::zpz<433>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<402>, ZPZV<5»; }; // NOLINT
03954 template<> struct ConwayPolynomial<433, 5> { using ZPZ = aerobus::zpz<433>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<428»; }; // NOLINT
03955 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
03956 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<428»; };
03957 template<> struct ConwayPolynomial<433, 8> { using ZPZ = aerobus::zpz<433>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<347>, ZPZV<32>, ZPZV<39>, ZPZV<5»; }; //
         NOLINT
03958 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<27>, ZPZV<232>, ZPZV<45>, ZPZV<428»;
         }; // NOLINT
03959 template<> struct ConwayPolynomial<439, 1> { using ZPZ = aerobus::zpz<439>; using type =
        POLYV<ZPZV<1>, ZPZV<424»; }; // NOLINT
03960 template<> struct ConwayPolynomial<439, 2> { using ZPZ = aerobus::zpz<439>; using type =
POLYV<ZPZV<1>, ZPZV<436>, ZPZV<15»; }; // NOLINT
03961 template<> struct ConwayPolynomial<439, 3> { using ZPZ = aerobus::zpz<439>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<424»; }; // NOLINT
03962 template<> struct ConwayPolynomial<439, 4> { using ZPZ = aerobus::zpz<439>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<323>, ZPZV<15»; }; // NOLINT
03963 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
03964 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
03965 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<424»; };
03966 template<> struct ConwayPolynomial<439, 8> { using ZPZ = aerobus::zpz<439>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<359>, ZPZV<296>, ZPZV<266>, ZPZV<15»; }; //
03967 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»;
         }; // NOLTNT
03968 template<> struct ConwayPolynomial<443, 1> { using ZPZ = aerobus::zpz<443>; using type =
        POLYV<ZPZV<1>, ZPZV<441»; }; // NOLINT
03969 template<> struct ConwayPolynomial<443, 2> { using ZPZ = aerobus::zpz<443>; using type =
        POLYV<ZPZV<1>, ZPZV<437>, ZPZV<2»; }; // NOLINT
03970 template<> struct ConwayPolynomial<443, 3> { using ZPZ = aerobus::zpz<443>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<441»; }; // NOLINT
03971 template<> struct ConwayPolynomial<443, 4> { using ZPZ = aerobus::zpz<443>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<383>, ZPZV<2»; }; // NOLINT
```

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03972 template<> struct ConwayPolynomial<443, 5> { using ZPZ = aerobus::zpz<443>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<441»; }; // NOLINT
03973 template<> struct ConwayPolynomial<443, 6> { using ZPZ = aerobus::zpz<443>; using type =
        03974 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<441»; );
                                                                                                                                // NOLTNT
03975 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»; }; //
03976 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<0>, ZPZV<3>, ZPZV<325, ZPZV<105>, ZPZV<4441»;
         }; // NOLINT
03977 template<> struct ConwayPolynomial<449, 1> { using ZPZ = aerobus::zpz<449>; using type =
        POLYV<ZPZV<1>, ZPZV<446»; }; // NOLINT
03978 template<> struct ConwayPolynomial<449, 2> { using ZPZ = aerobus::zpz<449>; using type =
POLYV<ZPZV<1>, ZPZV<4444, ZPZV<3»; }; // NOLINT
03979 template<> struct ConwayPolynomial<449, 3> { using ZPZ = aerobus::zpz<449>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<446»; }; // NOLINT
03980 template<> struct ConwayPolynomial<4449, 4> { using ZPZ = aerobus::zpz<449>; using type =
POLYV<2PZV<1>, ZPZV<2>, ZPZV<249>, ZPZV<3»; }; // NOLINT
03981 template<> struct ConwayPolynomial<449, 5> { using ZPZ = aerobus::zpz<449>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<446»; }; // NOLINT
03982 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 03983 template<> struct ConwayPolynomial<449, 7> { using ZPZ = aerobus::zpz<449>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<28>, ZPZV<446»; }; // NOLINT
03984 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
03985 template<> struct ConwayPolynomial<449, 9> { using ZPZ = aerobus::zpz<449>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<26>, ZPZV<26>, ZPZV<26>, ZPZV<9>, ZPZV<4446»; };
         // NOLINT
03986 template<> struct ConwayPolynomial<457, 1> { using ZPZ = aerobus::zpz<457>; using type =
        POLYV<ZPZV<1>, ZPZV<444»; }; // NOLINT
03987 template<> struct ConwayPolynomial<457, 2> { using ZPZ = aerobus::zpz<457>; using type =
POLYY<ZPZY<1>, ZPZY<454>, ZPZY<13»; ; // NOLINT

03988 template<> struct ConwayPolynomial<457, 3> { using ZPZ = aerobus::zpz<457>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<444*); }; // NOLINT
03989 template<> struct ConwayPolynomial<457, 4> { using ZPZ = aerobus::zpz<457>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<80>, ZPZV<407>, ZPZV<13»; }; // NOLINT
03990 template<> struct ConwayPolynomial<457, 5> { using ZPZ = aerobus::zpz<457>; using type =
         \verb"POLYV<ZPZV<1>, \verb"ZPZV<0>, \verb"ZPZV<0>, \verb"ZPZV<4>, \verb"ZPZV<44+"; "]; $ // \verb"NOLINT" | NOLINT" |
03991 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
03992 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<0>, ZPZV<444»; };
03993 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
03994 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<35, ZPZV<354>, ZPZV<84>, ZPZV<8444»;
         }; // NOLINT
03995 template<> struct ConwayPolynomial<461, 1> { using ZPZ = aerobus::zpz<461>; using type =
        POLYV<ZPZV<1>, ZPZV<459»; }; // NOLINT
03996 template<> struct ConwayPolynomial<461, 2> { using ZPZ = aerobus::zpz<461>; using type =
POLYV<ZPZV<1>, ZPZV<460>, ZPZV<2»; }; // NOLINT
03997 template<> struct ConwayPolynomial<461, 3> { using ZPZ = aerobus::zpz<461>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<459»; }; // NOLINT
03998 template<> struct ConwayPolynomial<461, 4> { using ZPZ = aerobus::zpz<461>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<393>, ZPZV<2»; }; // NOLINT
03999 template<> struct ConwayPolynomial<461, 5> { using ZPZ = aerobus::zpz<461>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<459»; }; // NOLINT
04000 template<> struct ConwayPolynomial<461, 6> { using ZPZ = aerobus::zpz<461>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<439>, ZPZV<432>, ZPZV<329>, ZPZV<2»; }; // NOLINT
04001 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<5>, ZPZV<459»; };
04002 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
04003 template<> struct ConwayPolynomial<461, 9> { using ZPZ = aerobus::zpz<461>; using type
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<510>, ZPZV<216>, ZPZV<459»;
         }; // NOLINT
04004 template<> struct ConwayPolynomial<463, 1> { using ZPZ = aerobus::zpz<463>; using type =
        POLYV<ZPZV<1>, ZPZV<460»; }; // NOLINT
04005 template<> struct ConwayPolynomial<463, 2> { using ZPZ = aerobus::zpz<463>; using type =
        POLYV<ZPZV<1>, ZPZV<461>, ZPZV<3»; }; // NOLINT
04006 template<> struct ConwayPolynomial<463, 3> { using ZPZ = aerobus::zpz<463>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<10>, ZPZV<460»; }; // NOLINT
04007 template<> struct ConwayPolynomial<463, 4> { using ZPZ = aerobus::zpz<463>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<17>, ZPZV<262>, ZPZV<3»; }; // NOLINT
04008 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
04009 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
04010 template<> struct ConwayPolynomial<463, 7> { using ZPZ = aerobus::zpz<463>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<460»; }; // NOLINT 04011 template<> struct ConwayPolynomial<463, 8> { using ZPZ = aerobus::zpz<463>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<234>, ZPZV<414>, ZPZV<396>, ZPZV<3»; }; //
04012 template<> struct ConwayPolynomial<463, 9> { using ZPZ = aerobus::zpz<463>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<43>, ZPZV<43>, ZPZV<227>, ZPZV<460»;
         }: // NOLINT
04013 template<> struct ConwayPolynomial<467, 1> { using ZPZ = aerobus::zpz<467>; using type =
         POLYV<ZPZV<1>, ZPZV<465»; }; // NOLINT
04014 template<> struct ConwayPolynomial<467, 2> { using ZPZ = aerobus::zpz<467>; using type =
POLYV<ZPZV<1>, ZPZV<463>, ZPZV<2»; }; // NOLINT
04015 template<> struct ConwayPolynomial<467, 3> { using ZPZ = aerobus::zpz<467>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<465»; }; // NOLINT
04016 template<> struct ConwayPolynomial<467, 4> { using ZPZ = aerobus::zpz<467>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<353>, ZPZV<2»; }; // NOLINT
04017 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
04018 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
04019 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»; }; // NOLINT
04020 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
04021 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<397>, ZPZV<3447>, ZPZV<465»;
         }; // NOLINT
04022 template<> struct ConwayPolynomial<479, 1> { using ZPZ = aerobus::zpz<479>; using type =
         POLYV<ZPZV<1>, ZPZV<466»; }; // NOLINT
04023 template<> struct ConwayPolynomial<479, 2> { using ZPZ = aerobus::zpz<479>; using type =
POLYY<ZPZY<1>, ZPZY<474>, ZPZY<13»; }; // NOLINT

04024 template<> struct ConwayPolynomial<479, 3> { using ZPZ = aerobus::zpz<479>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<466»; }; // NOLINT
04025 template<> struct ConwayPolynomial<479, 4> { using ZPZ = aerobus::zpz<479>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<386>, ZPZV<13»; }; // NOLINT
04026 template<> struct ConwayPolynomial<479, 5> { using ZPZ = aerobus::zpz<479>; using type =
          \verb"POLYV<ZPZV<1>, \ \verb"ZPZV<0>, \ \verb"ZPZV<0>, \ \verb"ZPZV<2>, \ \verb"ZPZV<466"; \ \verb"}; \ \ // \ \verb"NOLINT" | NOLINT" | NOLI
04027 template<> struct ConwayPolynomial<479, 6> { using ZPZ = aerobus::zpz<479>; using type =
POLYY<ZPZV<1>, ZPZV<1>, ZPZV<1>, ZPZV<243>, ZPZV<287>, ZPZV<334>, ZPZV<13»; }; // NOLINT 04028 template<> struct ConwayPolynomial<479, 7> { using ZPZ = aerobus::zpz<479>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<466»; };
04029 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»; }; //
         NOLINT
04030 template<> struct ConwayPolynomial<479, 9> { using ZPZ = aerobus::zpz<479>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<3>, ZPZV<185>, ZPZV<466»; };
04031 template<> struct ConwayPolynomial<487, 1> { using ZPZ = aerobus::zpz<487>; using type =
        POLYV<ZPZV<1>, ZPZV<484»; }; // NOLINT
04032 template<> struct ConwayPolynomial<487, 2> { using ZPZ = aerobus::zpz<487>; using type =
POLYV<ZPZV<1>, ZPZV<485>, ZPZV<3»; }; // NOLINT
04033 template<> struct ConwayPolynomial<487, 3> { using ZPZ = aerobus::zpz<487>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<484»; }; // NOLINT
04034 template<> struct ConwayPolynomial<487, 4> { using ZPZ = aerobus::zpz<487>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<483>, ZPZV<3»; }; // NOLINT

04035 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
04036 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
04037 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<7>, ZPZV<484»; }; // NOLINT
04038 template<> struct ConwayPolynomial<487, 8> { using ZPZ = aerobus::zpz<487>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<283>, ZPZV<249>, ZPZV<137>, ZPZV<3»; }; //
         NOLINT
04039 template<> struct ConwayPolynomial<487, 9> { using ZPZ = aerobus::zpz<487>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<211>, ZPZV<2447>, ZPZV<484»;
         }; // NOLINT
04040 template<> struct ConwayPolynomial<491, 1> { using ZPZ = aerobus::zpz<491>; using type =
        POLYV<ZPZV<1>, ZPZV<489»; }; // NOLINT
04041 template<> struct ConwayPolynomial<491, 2> { using ZPZ = aerobus::zpz<491>; using type =
        POLYV<ZPZV<1>, ZPZV<487>, ZPZV<2»; }; // NOLINT
04042 template<> struct ConwayPolynomial<491, 3> { using ZPZ = aerobus::zpz<491>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<489»; }; // NOLINT
04043 template<> struct ConwayPolynomial<491, 4> { using ZPZ = aerobus::zpz<491>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<360>, ZPZV<2»; }; // NOLINT
04044 template<> struct ConwayPolynomial<491, 5> { using ZPZ = aerobus::zpz<491>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<489»; }; // NOLINT
04045 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
04046 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<0>, ZPZV<5>, ZPZV<489»; };
                                                                                                                                  // NOLINT
04047 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»; }; //
04048 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<149>, ZPZV<453>, ZPZV<489»;
         }; // NOLINT
04049 template<> struct ConwayPolynomial<499, 1> { using ZPZ = aerobus::zpz<499>; using type =
         POLYV<ZPZV<1>, ZPZV<492»; }; // NOLINT
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04050 template<> struct ConwayPolynomial<499, 2> { using ZPZ = aerobus::zpz<499>; using type =
POLYV<ZPZV<1>, ZPZV<493>, ZPZV<7»; }; // NOLINT
04051 template<> struct ConwayPolynomial<499, 3> { using ZPZ = aerobus::zpz<499>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<492»; }; // NOLINT
04052 template<> struct ConwayPolynomial<499, 4> { using ZPZ = aerobus::zpz<499>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<495>, ZPZV<7»; }; // NOLINT
04053 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
04054 template<> struct ConwayPolynomial<499, 6> { using ZPZ = aerobus::zpz<499>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<407>, ZPZV<191>, ZPZV<7**, }; // NOLINT 04055 template<> struct ConwayPolynomial<499, 7> { using ZPZ = aerobus::zpz<499>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<492»; }; // NOLINT
04056 template<> struct ConwayPolynomial<499, 8> { using ZPZ = aerobus::zpz<499>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<309>, ZPZV<200>, ZPZV<7»; }; //
       NOLINT
04057 template<> struct ConwayPolynomial<499, 9> { using ZPZ = aerobus::zpz<499>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<491>, ZPZV<492>, ZPZV<492»;
       ); // NOLINT
04058 template<> struct ConwayPolynomial<503, 1> { using ZPZ = aerobus::zpz<503>; using type =
       POLYV<ZPZV<1>, ZPZV<498»; }; // NOLINT
04059 template<> struct ConwayPolynomial<503, 2> { using ZPZ = aerobus::zpz<503>; using type =
                                                    // NOLINT
       POLYV<ZPZV<1>, ZPZV<498>, ZPZV<5»; };
04060 template<> struct ConwayPolynomial<503, 3> { using ZPZ = aerobus::zpz<503>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<498»; }; // NOLINT
04061 template<> struct ConwayPolynomial<503, 4> { using ZPZ = aerobus::zpz<503>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<325>, ZPZV<5»; }; // NOLINT
04062 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 04063 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
04064 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»; };
04065 template<> struct ConwayPolynomial<503, 8> { using ZPZ = aerobus::zpz<503>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<441>, ZPZV<203>, ZPZV<316>, ZPZV<5»; }; //
       NOLINT
04066 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»;
04067 template<> struct ConwayPolynomial<509, 1> { using ZPZ = aerobus::zpz<509>; using type =
       POLYV<ZPZV<1>, ZPZV<507»; }; // NOLINT
04068 template<> struct ConwayPolynomial<509, 2> { using ZPZ = aerobus::zpz<509>; using type =
POLYV<ZPZV<1>, ZPZV<508>, ZPZV<2»; }; // NOLINT
04069 template<> struct ConwayPolynomial<509, 3> { using ZPZ = aerobus::zpz<509>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<507»; }; // NOLINT
04070 template<> struct ConwayPolynomial<509, 4> { using ZPZ = aerobus::zpz<509>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<408>, ZPZV<2»; }; // NOLINT
04071 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
04072 template<> struct ConwayPolynomial<509, 6> { using ZPZ = aerobus::zpz<509>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<350>, ZPZV<232>, ZPZV<41>, ZPZV<2»; }; // NOLINT
04073 template<> struct ConwayPolynomial<509, 7> { using ZPZ = aerobus::zpz<509>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<507»; };
04074 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»; }; //
       NOLINT
04075 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<3, ZPZV<314>, ZPZV<28>, ZPZV<507»;
04076 template<> struct ConwayPolynomial<521, 1> { using ZPZ = aerobus::zpz<521>; using type =
       POLYV<ZPZV<1>, ZPZV<518»; }; // NOLINT
04077 template<> struct ConwayPolynomial<521, 2> { using ZPZ = aerobus::zpz<521>; using type = POLYV<ZPZV<1>, ZPZV<515>, ZPZV<3»; }; // NOLINT
04078 template<> struct ConwayPolynomial<521, 3> { using ZPZ = aerobus::zpz<521>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<518»; }; // NOLINT
04079 template<> struct ConwayPolynomial<521, 4> { using ZPZ = aerobus::zpz<521>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<509>, ZPZV<3»; }; // NOLINT
04080 template<> struct ConwayPolynomial<521, 5> { using ZPZ = aerobus::zpz<521>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<518»; }; // NOLINT
04081 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
04082 template<> struct ConwayPolynomial<521, 7> { using ZPZ = aerobus::zpz<521>;
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<1>, ZPZV<518»; };
                                                                                                         // NOLINT
04083 template<> struct ConwayPolynomial<521, 8> { using ZPZ = aerobus::zpz<521>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<46>, ZPZV<462>, ZPZV<407>, ZPZV<312>, ZPZV<3»; }; //
       NOLINT
04084 template<> struct ConwayPolynomial<521, 9> { using ZPZ = aerobus::zpz<521>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<181>, ZPZV<483>, ZPZV<518»;
       }; // NOLINT
04085 template<> struct ConwayPolynomial<523, 1> { using ZPZ = aerobus::zpz<523>; using type =
       POLYV<ZPZV<1>, ZPZV<521»; }; // NOLINT
04086 template<> struct ConwayPolynomial<523, 2> { using ZPZ = aerobus::zpz<523>; using type =
POLYV<ZPZV<1>, ZPZV<522>, ZPZV<2»; }; // NOLINT
04087 template<> struct ConwayPolynomial<523, 3> { using ZPZ = aerobus::zpz<523>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<521»; }; // NOLINT
04088 template<> struct ConwayPolynomial<523, 4> { using ZPZ = aerobus::zpz<523>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<382>, ZPZV<2»; }; // NOLINT
04089 template<> struct ConwayPolynomial<523, 5> { using ZPZ = aerobus::zpz<523>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<521»; }; // NOLINT
04090 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
04091 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<1>, ZPZV<5, Z
04092 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»; }; //
04093 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<19>, ZPZV<342>, ZPZV<345>, ZPZV<521»;
           }; // NOLINT
04094 template<> struct ConwavPolynomial<541, 1> { using ZPZ = aerobus::zpz<541>; using type =
           POLYV<ZPZV<1>, ZPZV<539»; }; // NOLINT
04095 template<> struct ConwayPolynomial<541, 2> { using ZPZ = aerobus::zpz<541>; using type =
           POLYV<ZPZV<1>, ZPZV<537>, ZPZV<2»; }; // NOLINT
04096 template<> struct ConwayPolynomial<541, 3> { using ZPZ = aerobus::zpz<541>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<539»; }; // NOLINT
04097 template<> struct ConwayPolynomial<541, 4> { using ZPZ = aerobus::zpz<541>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<333>, ZPZV<2»; }; // NOLINT
04098 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
04099 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 04100 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<2>, ZPZV<539»; };
                                                                                                                                                                  // NOLINT
04101 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<2»; }; //
           NOT.TNT
04102 template<> struct ConwayPolynomial<541, 9> { using ZPZ = aerobus::zpz<541>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<16>, ZPZV<340>, ZPZV<340>, ZPZV<318>, ZPZV<539»;
           }; // NOLINT
04103 template<> struct ConwayPolynomial<547, 1> { using ZPZ = aerobus::zpz<547>; using type =
           POLYV<ZPZV<1>, ZPZV<545»; }; // NOLINT
04104 template<> struct ConwayPolynomial<547, 2> { using ZPZ = aerobus::zpz<547>; using type =
POLYV<ZPZV<1>, ZPZV<543, ZPZV<2»; }; // NOLINT
04105 template<> struct ConwayPolynomial<547, 3> { using ZPZ = aerobus::zpz<547>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<545»; }; // NOLINT
04106 template<> struct ConwayPolynomial<547, 4> { using ZPZ = aerobus::zpz<547>; using type =
POLYV<2PZV<1>, ZPZV<8>, ZPZV<334>, ZPZV<2»; }; // NOLINT
04107 template<> struct ConwayPolynomial<547, 5> { using ZPZ = aerobus::zpz<547>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<545»; }; // NOLINT
04108 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 04109 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
04110 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»; }; //
           NOLINT
04111 template<> struct ConwayPolynomial<547, 9> { using ZPZ = aerobus::zpz<547>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<238>, ZPZV<263>, ZPZV<545»;
           }; // NOLINT
04112 template<> struct ConwayPolynomial<557, 1> { using ZPZ = aerobus::zpz<557>; using type =
           POLYV<ZPZV<1>, ZPZV<555»; }; // NOLINT
04113 template<> struct ConwayPolynomial<557, 2> { using ZPZ = aerobus::zpz<557>; using type =
POLYY<ZPZV<1>, ZPZV<553>, ZPZV<2»; }; // NOLINT
04114 template<> struct ConwayPolynomial<557, 3> { using ZPZ = aerobus::zpz<557>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<555»; }; // NOLINT
04115 template<> struct ConwayPolynomial<557, 4> { using ZPZ = aerobus::zpz<557>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<430>, ZPZV<2»; }; // NOLINT
04116 template<> struct ConwayPolynomial<557, 5> { using ZPZ = aerobus::zpz<557>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<555»; }; // NOLINT
04117 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
04118 template<> struct ConwayPolynomial<557, 7> { using ZPZ = aerobus::zpz<557>;
                                                                                                                                                    using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<555»; };
04119 template<> struct ConwayPolynomial<557, 8> { using ZPZ = aerobus::zpz<557>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<480>, ZPZV<384>, ZPZV<113>, ZPZV<2w; }; //
           NOLINT
04120 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<0>, ZPZV<45>, ZPZV<456>, ZPZV<434>, ZPZV<555»;
           }; // NOLINT
04121 template<> struct ConwayPolynomial<563, 1> { using ZPZ = aerobus::zpz<563>; using type =
           POLYV<ZPZV<1>, ZPZV<561»; }; // NOLINT
04122 template<> struct ConwayPolynomial<563, 2> { using ZPZ = aerobus::zpz<563>; using type =
POLYV<ZPZV<1>, ZPZV<559>, ZPZV<2»; }; // NOLINT
04123 template<> struct ConwayPolynomial<563, 3> { using ZPZ = aerobus::zpz<563>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<561»; }; // NOLINT
04124 template<> struct ConwayPolynomial<563, 4> { using ZPZ = aerobus::zpz<563>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<20>, ZPZV<399>, ZPZV<2»; }; // NOLINT
04125 template<> struct ConwayPolynomial<563, 5> { using ZPZ = aerobus::zpz<563>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<66>, ZPZV<561»; }; // NOLINT
04126 template<> struct ConwayPolynomial<563, 6> { using ZPZ = aerobus::zpz<563>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<12>, ZPZV<303>, ZPZV<246>, ZPZV<2»; }; // NOLINT
04127 template<> struct ConwayPolynomial<563, 7> { using ZPZ = aerobus::zpz<563>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<561»; };
04128 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<509
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04129 template<> struct ConwayPolynomial<563, 9> { using ZPZ = aerobus::zpz<563>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<15>, ZPZV<19>, ZPZV<561»; };
       // NOLINT
04130 template<> struct ConwayPolynomial<569, 1> { using ZPZ = aerobus::zpz<569>; using type =
      POLYV<ZPZV<1>, ZPZV<566»; }; // NOLINT
04131 template<> struct ConwayPolynomial<569, 2> { using ZPZ = aerobus::zpz<569>; using type =
                                                // NOLINT
      POLYV<ZPZV<1>, ZPZV<568>, ZPZV<3»; };
04132 template<> struct ConwayPolynomial<569, 3> { using ZPZ = aerobus::zpz<569>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<566»; }; // NOLINT
04133 template<> struct ConwayPolynomial<569, 4> { using ZPZ = aerobus::zpz<569>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<381>, ZPZV<3»; }; // NOLINT
04134 template<> struct ConwayPolynomial<569, 5> { using ZPZ = aerobus::zpz<569>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<566»; }; // NOLINT
04135 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 04136 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<5, ZPZV<5, ZPZV<56%; }; // 104137 template<> struct ConwayPolynomial<569, 8> { using ZPZ = aerobus::zpz<569>; using type =
                                                                                                  // NOLINT
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<527>, ZPZV<173>, ZPZV<241>, ZPZV<241>, ZPZV<3»; }; //
      NOLINT
04138 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<1>, ZPZV<478>, ZPZV<566>, ZPZV<566»;
       }: // NOLINT
04139 template<> struct ConwayPolynomial<571, 1> { using ZPZ = aerobus::zpz<571>; using type =
      POLYV<ZPZV<1>, ZPZV<568»; }; // NOLINT
04140 template<> struct ConwayPolynomial<571, 2> { using ZPZ = aerobus::zpz<571>; using type =
      POLYV<ZPZV<1>, ZPZV<570>, ZPZV<3»; }; // NOLINT
04141 template<> struct ConwayPolynomial<571, 3> { using ZPZ = aerobus::zpz<571>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<568»; }; // NOLINT
04142 template<> struct ConwayPolynomial<571, 4> { using ZPZ = aerobus::zpz<571>; using type =
POLYV<ZPZV<1>, ZPZV<2>, ZPZV<402>, ZPZV<3>; }; // NOLINT
04143 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
04144 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
04145 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<0>, ZPZV<568»; };
04146 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»; }; //
      NOT.TNT
04147 template<> struct ConwayPolynomial<571, 9> { using ZPZ = aerobus::zpz<571>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<568»;
      }; // NOLINT
04148 template<> struct ConwayPolynomial<577, 1> { using ZPZ = aerobus::zpz<577>; using type =
      POLYV<ZPZV<1>, ZPZV<572»; }; // NOLINT
04149 template<> struct ConwayPolynomial<577, 2> { using ZPZ = aerobus::zpz<577>; using type =
POLYV<ZPZV<1>, ZPZV<572>, ZPZV<5»; }; // NOLINT
04150 template<> struct ConwayPolynomial<577, 3> { using ZPZ = aerobus::zpz<577>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<572»; }; // NOLINT
04151 template<> struct ConwayPolynomial<577, 4> { using ZPZ = aerobus::zpz<577>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<494>, ZPZV<5»; }; // NOLINT
04152 template<> struct ConwayPolynomial<577, 5> { using ZPZ = aerobus::zpz<577>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<572»; }; // NOLINT
04153 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>, ZPŽV<5»; }; // NOLINT
04154 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»; };
04155 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<321>, ZPZV<5»; }; //
      NOLINT
04156 template<> struct ConwayPolynomial<577, 9> { using ZPZ = aerobus::zpz<577>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<576>, ZPZV<4449>, ZPZV<572»;
       }; // NOLINT
04157 template<> struct ConwayPolynomial<587, 1> { using ZPZ = aerobus::zpz<587>; using type =
      POLYV<ZPZV<1>, ZPZV<585»; }; // NOLINT
04158 template<> struct ConwayPolynomial<587, 2> { using ZPZ = aerobus::zpz<587>; using type =
POLYV<ZPZV<1>, ZPZV<583>, ZPZV<2»; }; // NOLINT
04159 template<> struct ConwayPolynomial<587, 3> { using ZPZ = aerobus::zpz<587>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<585»; }; // NOLINT
04160 template<> struct ConwayPolynomial<587, 4> { using ZPZ = aerobus::zpz<587>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<16>, ZPZV<444>, ZPZV<2»; }; // NOLINT
04161 template<> struct ConwayPolynomial<587, 5> { using ZPZ = aerobus::zpz<587>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<585»; }; // NOLINT
04162 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
04163 template<> struct ConwayPolynomial<587, 7> { using ZPZ = aerobus::zpz<587>;
                                                                                         using type
      04164 template<> struct ConwayPolynomial<587, 8> { using ZPZ = aerobus::zpz<587>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<442>, ZPZV<44>, ZPZV<91>, ZPZV<2»; }; //
      NOLINT
04165 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<0>, ZPZV<0>, ZPZV<333>, ZPZV<55>, ZPZV<585»;
       }; // NOLINT
04166 template<> struct ConwayPolynomial<593, 1> { using ZPZ = aerobus::zpz<593>; using type =
      POLYV<ZPZV<1>, ZPZV<590»; }; // NOLINT
04167 template<> struct ConwayPolynomial<593, 2> { using ZPZ = aerobus::zpz<593>; using type =
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POLYV<ZPZV<1>, ZPZV<592>, ZPZV<3»; };
                                                                                   // NOLINT
04168 template<> struct ConwayPolynomial<593, 3> { using ZPZ = aerobus::zpz<593>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<590»; }; // NOLINT
04169 template<> struct ConwayPolynomial<593, 4> { using ZPZ = aerobus::zpz<593>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<419>, ZPZV<3»; }; // NOLINT
04170 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
04171 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
04172 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<0>, ZPZV<15>, ZPZV<590»; }; // NOLINT
04173 template<> struct ConwayPolynomial<593, 8> { using ZPZ = aerobus::zpz<593>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<29, ZPZV<350>, ZPZV<291>, ZPZV<495>, ZPZV<495, ZPZV<39; }; //
04174 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<8>, ZPZV<223>, ZPZV<523>, ZPZV<590»;
            }; // NOLTNT
04175 template<> struct ConwayPolynomial<599, 1> { using ZPZ = aerobus::zpz<599>; using type =
           POLYV<ZPZV<1>, ZPZV<592»; }; // NOLINT
04176 template<> struct ConwayPolynomial<599, 2> { using ZPZ = aerobus::zpz<599>; using type =
           POLYV<ZPZV<1>, ZPZV<598>, ZPZV<7»; }; // NOLINT
04177 template<> struct ConwayPolynomial<599, 3> { using ZPZ = aerobus::zpz<599>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<592»; }; // NOLINT
04178 template<> struct ConwayPolynomial<599, 4> { using ZPZ = aerobus::zpz<599>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<419>, ZPZV<7»; }; // NOLINT
04179 template<> struct ConwayPolynomial<599, 5> { using ZPZ = aerobus::zpz<599>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<592»; }; // NOLINT
04180 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
04181 template<> struct ConwayPolynomial<599, 7> { using ZPZ = aerobus::zpz<599>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<2>, ZPZV<592»; }; // NOLINT
04182 template<> struct ConwayPolynomial<599, 8> { using ZPZ = aerobus::zpz<599>; using type
            POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<440>, ZPZV<37>, ZPZV<124>, ZPZV<124>, ZPZV<7»; }; //
           NOLINT
04183 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
04184 template<> struct ConwayPolynomial<601, 1> { using ZPZ = aerobus::zpz<601>; using type =
           POLYV<ZPZV<1>, ZPZV<594»; }; // NOLINT
04185 template<> struct ConwayPolynomial<601, 2> { using ZPZ = aerobus::zpz<601>; using type =
POLYV<ZPZV<1>, ZPZV<598, ZPZV<7»; }; // NOLINT
04186 template<> struct ConwayPolynomial<601, 3> { using ZPZ = aerobus::zpz<601>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<594»; }; // NOLINT
04187 template<> struct ConwayPolynomial<601, 4> { using ZPZ = aerobus::zpz<601>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<347>, ZPZV<7w; }; // NOLINT
04188 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
04189 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
04190 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 , Z
04191 template<> struct ConwayPolynomial<601, 8> { using ZPZ = aerobus::zpz<601>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<550>, ZPZV<241>, ZPZV<490>, ZPZV<7»; }; //
           NOLINT
04192 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»;
04193 template<> struct ConwayPolynomial<607, 1> { using ZPZ = aerobus::zpz<607>; using type =
           POLYV<ZPZV<1>, ZPZV<604»; }; // NOLINT
04194 template<> struct ConwayPolynomial<607, 2> { using ZPZ = aerobus::zpz<607>; using type =
POLYV<ZPZV<1>, ZPZV<606>, ZPZV<3»; }; // NOLINT

04195 template<> struct ConwayPolynomial<607, 3> { using ZPZ = aerobus::zpz<607>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<604»; }; // NOLINT
04196 template<> struct ConwayPolynomial<607, 4> { using ZPZ = aerobus::zpz<607>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<449>, ZPZV<3»; }; // NOLINT
04197 template<> struct ConwayPolynomial<607, 5> { using ZPZ = aerobus::zpz<607>; using type =
           04198 template<> struct ConwayPolynomial<607, 6> { using ZPZ = aerobus::zpz<607>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<45>, ZPZV<478>, ZPZV<3»; }; // NOLINT
04199 template<> struct ConwayPolynomial<607, 7> { using ZPZ = aerobus::zpz<607>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0
04200 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»; }; //
           NOLINT
04201 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<0>, ZPZV<1>, ZPZV<4444>, ZPZV<129>, ZPZV<604»;
            }; // NOLINT
04202 template<> struct ConwayPolynomial<613, 1> { using ZPZ = aerobus::zpz<613>; using type =
           POLYV<ZPZV<1>, ZPZV<611»; }; // NOLINT
04203 template<> struct ConwayPolynomial<613, 2> { using ZPZ = aerobus::zpz<613>; using type =
POLYV<ZPZV<1>, ZPZV<609>, ZPZV<2»; }; // NOLINT
04204 template<> struct ConwayPolynomial<613, 3> { using ZPZ = aerobus::zpz<613>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<611»; }; // NOLINT
04205 template<> struct ConwayPolynomial<613, 4> { using ZPZ = aerobus::zpz<613>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<333>, ZPZV<2»; }; // NOLINT
04206 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
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04207 template<> struct ConwayPolynomial<613, 6> { using ZPZ = aerobus::zpz<613>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<609>, ZPZV<609>, ZPZV<601>, ZPZV<601>, ZPZV<2»; }; // NOLINT 04208 template<> struct ConwayPolynomial<613, 7> { using ZPZ = aerobus::zpz<613>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<611»; };
04209 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»; }; //
04210 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<8>, ZPZV<513>, ZPZV<536>, ZPZV<611»;
           }; // NOLINT
04211 template<> struct ConwayPolynomial<617, 1> { using ZPZ = aerobus::zpz<617>; using type =
           POLYV<ZPZV<1>, ZPZV<614»; }; // NOLINT
04212 template<> struct ConwayPolynomial<617, 2> { using ZPZ = aerobus::zpz<617>; using type =
           POLYV<ZPZV<1>, ZPZV<612>, ZPZV<3»; }; // NOLINT
04213 template<> struct ConwayPolynomial<617, 3> { using ZPZ = aerobus::zpz<617>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<614»; }; // NOLINT
04214 template<> struct ConwayPolynomial<617, 4> { using ZPZ = aerobus::zpz<617>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<503>, ZPZV<3»; }; // NOLINT
04215 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
04216 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
04217 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<7>, ZPZV<614»; }; // NOLINT
04218 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<3»; }; //
04219 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
04220 template<> struct ConwayPolynomial<619, 1> { using ZPZ = aerobus::zpz<619>; using type =
           POLYV<ZPZV<1>, ZPZV<617»; }; // NOLINT
04221 template<> struct ConwayPolynomial<619, 2> { using ZPZ = aerobus::zpz<619>; using type =
           POLYV<ZPZV<1>, ZPZV<618>, ZPZV<2»; }; // NOLINT
04222 template<> struct ConwayPolynomial<619, 3> { using ZPZ = aerobus::zpz<619>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<6>, ZPZV<617»; }; // NOLINT

04223 template<> struct ConwayPolynomial<a619, 4> { using ZPZ = aerobus::zpz<619>; using type = POLYV<ZPZV<1>, ZPZV<6>, ZPZV<6>, ZPZV<492>, ZPZV<2»; }; // NOLINT

04224 template<> struct ConwayPolynomial<a619, 5> { using ZPZ = aerobus::zpz<619>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<492>, ZPZV<2»; }; // NOLINT
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<617»; }; // NOLINT
04225 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 04226 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»; };
04227 template<> struct ConwayPolynomial<619, 8> { using ZPZ = aerobus::zpz<619>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<416>, ZPZV<383>, ZPZV<225>, ZPZV<2»; }; //
           NOLINT
04228 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<519>, ZPZV<519>,
           }; // NOLINT
04229 template<> struct ConwayPolynomial<631, 1> { using ZPZ = aerobus::zpz<631>; using type =
           POLYV<ZPZV<1>, ZPZV<628»; }; // NOLINT
04230 template<> struct ConwayPolynomial<631, 2> { using ZPZ = aerobus::zpz<631>; using type =
POLYV<ZPZV<1>, ZPZV<629, ZPZV<3»; }; // NOLINT
04231 template<> struct ConwayPolynomial<631, 3> { using ZPZ = aerobus::zpz<631>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<628»; }; // NOLINT
04232 template<> struct ConwayPolynomial<631, 4> { using ZPZ = aerobus::zpz<631>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<376>, ZPZV<378; }; // NOLINT
04233 template<> struct ConwayPolynomial<631, 5> { using ZPZ = aerobus::zpz<631>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<628*; }; // NOLINT
04234 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
04235 template<> struct ConwayPolynomial<631, 7> { using ZPZ = aerobus::zpz<631>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<628»; };
04236 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
04237 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<3>, ZPZV<296>, ZPZV<413>, ZPZ
           }; // NOLINT
04238 template<> struct ConwayPolynomial<641, 1> { using ZPZ = aerobus::zpz<641>; using type =
           POLYV<ZPZV<1>, ZPZV<638»; }; // NOLINT
04239 template<> struct ConwayPolynomial<641, 2> { using ZPZ = aerobus::zpz<641>; using type =
POLYV<ZPZV<1>, ZPZV<635, ZPZV<3»; }; // NOLINT
04240 template<> struct ConwayPolynomial<641, 3> { using ZPZ = aerobus::zpz<641>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<638»; }; // NOLINT
04241 template<> struct ConwayPolynomial<641, 4> { using ZPZ = aerobus::zpz<641>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<629>, ZPZV<3»; }; // NOLINT
04242 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
04243 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
04244 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»; };
04245 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<3»; }; //
           NOLTNT
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04246 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<0>, ZPZV<66>, ZPZV<141>, ZPZV<638»;
         }; // NOLINT
04247 template<> struct ConwayPolynomial<643, 1> { using ZPZ = aerobus::zpz<643>; using type =
         POLYV<ZPZV<1>, ZPZV<632»; }; // NOLINT
04248 template<> struct ConwayPolynomial<643, 2> { using ZPZ = aerobus::zpz<643>; using type =
POLYV<ZPZV<1>, ZPZV<641>, ZPZV<11s; }; // NOLINT

04249 template<> struct ConwayPolynomial<643, 3> { using ZPZ = aerobus::zpz<643>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<632»; }; // NOLINT
04250 template<> struct ConwayPolynomial<643, 4> { using ZPZ = aerobus::zpz<643>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<60>, ZPZV<600>, ZPZV<11»; }; // NOLINT
04251 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
04252 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
04253 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»; };
04254 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»; }; //
04255 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<5>, ZPZV<591>, ZPZV<475>, ZPZV<632»;
         }; // NOLINT
04256 template<> struct ConwayPolynomial<647, 1> { using ZPZ = aerobus::zpz<647>; using type =
         POLYV<ZPZV<1>, ZPZV<642»; }; // NOLINT
04257 template<> struct ConwayPolynomial<647, 2> { using ZPZ = aerobus::zpz<647>; using type =
         POLYV<ZPZV<1>, ZPZV<645>, ZPZV<5»; }; // NOLINT
04258 template<> struct ConwayPolynomial<647, 3> { using ZPZ = aerobus::zpz<647>; using type =
POLYY<ZPZV<1>, ZPZV<6>, ZPZV<6>, ZPZV<642»; }; // NOLINT

04259 template<> struct ConwayPolynomial<647, 4> { using ZPZ = aerobus::zpz<647>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<643>, ZPZV<5»; }; // NOLINT

04260 template<> struct ConwayPolynomial<647, 5> { using ZPZ = aerobus::zpz<647>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<11>, ZPZV<642»; }; // NOLINT
04261 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»; }; // NOLINT 04262 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»; };
04263 template<> struct ConwayPolynomial<647, 8> { using ZPZ = aerobus::zpz<647>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<603>, ZPZV<259>, ZPZV<271>, ZPZV<27»; }; //
04264 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<0>, ZPZV<13>, ZPZV<561>, ZPZV<123>, ZPZV<642»;
         }: // NOLINT
04265 template<> struct ConwayPolynomial<653, 1> { using ZPZ = aerobus::zpz<653>; using type =
         POLYV<ZPZV<1>, ZPZV<651»; }; // NOLINT
04266 template<> struct ConwayPolynomial<653, 2> { using ZPZ = aerobus::zpz<653>; using type =
         POLYV<ZPZV<1>, ZPZV<649>, ZPZV<2»; }; // NOLINT
04267 template<> struct ConwayPolynomial<653, 3> { using ZPZ = aerobus::zpz<653>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<651»; }; // NOLINT
04268 template<> struct ConwayPolynomial<653, 4> { using ZPZ = aerobus::zpz<653>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<5>6>, ZPZV<596>, ZPZV<2»; }; // NOLINT
04269 template<> struct ConwayPolynomial<653, 5> { using ZPZ = aerobus::zpz<653>; using type =
          \verb"POLYV<ZPZV<1>, \verb"ZPZV<0>, \verb"ZPZV<0>, \verb"ZPZV<5>, \verb"ZPZV<651"; \verb"}; \verb"// NOLINT" | 
04270 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<242>, ZPZV<242>; }; // NOLINT 04271 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
04272 template<> struct ConwayPolynomial<653, 8> { using ZPZ = aerobus::zpz<653>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<385>, ZPZV<18>, ZPZV<296>, ZPZV<2»; }; //
         NOLINT
04273 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<0>, ZPZV<365>, ZPZV<665)»;
         }; // NOLINT
04274 template<> struct ConwayPolynomial<659, 1> { using ZPZ = aerobus::zpz<659>; using type =
         POLYV<ZPZV<1>, ZPZV<657»; }; // NOLINT
04275 template<> struct ConwayPolynomial<659, 2> { using ZPZ = aerobus::zpz<659>; using type =
POLYV<ZPZV<1>, ZPZV<655>, ZPZV<2»; }; // NOLINT
04276 template<> struct ConwayPolynomial<659, 3> { using ZPZ = aerobus::zpz<659>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<657»; }; // NOLINT
04277 template<> struct ConwayPolynomial<659, 4> { using ZPZ = aerobus::zpz<659>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<351>, ZPZV<2»; }; // NOLINT
04278 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
04279 template<> struct ConwayPolynomial<659, 6> { using ZPZ = aerobus::zpz<659>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<6>, ZPZV<371>, ZPZV<105>, ZPZV<23>, ZPZV<23>; }/ NOLINT 04280 template<> struct ConwayPolynomial<659, 7> { using ZPZ = aerobus::zpz<659>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<657»; };
04281 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
04282 template<> struct ConwayPolynomial<659, 9> { using ZPZ = aerobus::zpz<659>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<592>, ZPZV<592>, ZPZV<46>, ZPZV<657»;
04283 template<> struct ConwayPolynomial<661, 1> { using ZPZ = aerobus::zpz<661>; using type =
         POLYV<ZPZV<1>, ZPZV<659»; }; // NOLINT
04284 template<> struct ConwayPolynomial<661, 2> { using ZPZ = aerobus::zpz<661>; using type =
         POLYV<ZPZV<1>, ZPZV<660>, ZPZV<2»; }; // NOLINT
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04285 template<> struct ConwayPolynomial<661, 3> { using ZPZ = aerobus::zpz<661>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<659»; }; // NOLINT
04286 template<> struct ConwayPolynomial<661, 4> { using ZPZ = aerobus::zpz<661>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<616>, ZPZV<2»; }; // NOLINT
04287 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
04288 template<> struct ConwayPolynomial<br/>6661, 6> { using ZPZ = aerobus::zpz<661>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<551>, ZPZV<456>, ZPZV<382>, ZPZV<2»; };
04289 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<2>, ZPZV<2>, ZPZV<659»; };
04290 template<> struct ConwayPolynomial<661, 8> { using ZPZ = aerobus::zpz<661>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<61>, ZPZV<285>, ZPZV<72>, ZPZV<2»; }; //
         NOLINT
04291 template<> struct ConwayPolynomial<661, 9> { using ZPZ = aerobus::zpz<661>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<18>, ZPZV<389>, ZPZV<220>, ZPZV<659»;
          }; // NOLINT
04292 template<> struct ConwayPolynomial<673, 1> { using ZPZ = aerobus::zpz<673>; using type =
         POLYV<ZPZV<1>, ZPZV<668»; }; // NOLINT
04293 template<> struct ConwayPolynomial<673, 2> { using ZPZ = aerobus::zpz<673>; using type =
         POLYV<ZPZV<1>, ZPZV<672>, ZPZV<5»; }; // NOLINT
04294 template<> struct ConwayPolynomial<673, 3> { using ZPZ = aerobus::zpz<673>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<668»; }; // NOLINT
04295 template<> struct ConwayPolynomial<673, 4> { using ZPZ = aerobus::zpz<673>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<416>, ZPZV<5»; }; // NOLINT
04296 template<> struct ConwayPolynomial<673, 5> { using ZPZ = aerobus::zpz<673>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<15>, ZPZV<668»; }; // NOLINT
04297 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<5»; }; // NOLINT
04298 template<> struct ConwayPolynomial<673, 7> { using ZPZ = aerobus::zpz<673>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<6>, ZPZV<668»; };
                                                                                                                                      // NOLINT
04299 template<> struct ConwayPolynomial<673, 8> { using ZPZ = aerobus::zpz<673>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<669>, ZPZV<587>, ZPZV<302>, ZPZV<5»; }; //
04300 template<> struct ConwayPolynomial<673, 9> { using ZPZ = aerobus::zpz<673>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<347>, ZPZV<553>, ZPZV<668»;
         }; // NOLINT
04301 template<> struct ConwayPolynomial<677, 1> { using ZPZ = aerobus::zpz<677>; using type =
         POLYV<ZPZV<1>, ZPZV<675»; }; // NOLINT
04302 template<> struct ConwayPolynomial<677, 2> { using ZPZ = aerobus::zpz<677>; using type =
POLYV<ZPZV<1>, ZPZV<672>, ZPZV<2»; }; // NOLINT
04303 template<> struct ConwayPolynomial<677, 3> { using ZPZ = aerobus::zpz<677>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<675»; }; // NOLINT
04304 template<> struct ConwayPolynomial<677, 4> { using ZPZ = aerobus::zpz<677>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<631>, ZPZV<2»; }; // NOLINT
04305 template<> struct ConwayPolynomial<677, 5> { using ZPZ = aerobus::zpz<677>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<675»; }; // NOLINT
04306 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
04307 template<> struct ConwayPolynomial<677, 7> { using ZPZ = aerobus::zpz<677>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<675»; }; // NOLINT
04308 template<> struct ConwayPolynomial<677, 8> { using ZPZ = aerobus::zpz<677>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3619>, ZPZV<152>, ZPZV<2»; }; //
         NOLINT
04309 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<50>, ZPZV<504>, ZPZV<404>, ZPZV<404+, 
         }; // NOLINT
04310 template<> struct ConwayPolynomial<683, 1> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<678»; }; // NOLINT
04311 template<> struct ConwayPolynomial<683, 2> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<682>, ZPZV<5»; };
                                                                  // NOLINT
04312 template<> struct ConwayPolynomial<683, 3> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<678»; }; // NOLINT
04313 template<> struct ConwayPolynomial<683, 4> { using ZPZ = aerobus::zpz<683>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<45>, ZPZV<45>, ZPZV<6»; }; // NOLINT
04314 template<> struct ConwayPolynomial<683, 5> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<678»; }; // NOLINT
04315 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
04316 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<0>, ZPZV<30>, ZPZV<678»; };
04317 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<5»; }; //
         NOLINT
04318 template<> struct ConwayPolynomial<683, 9> { using ZPZ = aerobus::zpz<683>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<678»;
         }; // NOLINT
04319 template<> struct ConwayPolynomial<691, 1> { using ZPZ = aerobus::zpz<691>; using type =
         POLYV<ZPZV<1>, ZPZV<688»; }; // NOLINT
04320 template<> struct ConwayPolynomial<691, 2> { using ZPZ = aerobus::zpz<691>; using type =
         POLYV<ZPZV<1>, ZPZV<686>, ZPZV<3»; }; // NOLINT
04321 template<> struct ConwayPolynomial<691, 3> { using ZPZ = aerobus::zpz<691>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<688»; }; // NOLINT
04322 template<> struct ConwayPolynomial<691, 4> { using ZPZ = aerobus::zpz<691>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<632>, ZPZV<3»; }; // NOLINT
04323 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 04324 template<> struct ConwayPolynomial<691, 6> { using ZPZ = aerobus::zpz<691>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<579>, ZPZV<408>, ZPZV<262>, ZPZV<3»; };
04325 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<0>, ZPZV<4>, ZPZV<688»; };
                                                                                                                        // NOLINT
04326 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<3»; }; //
        NOT.TNT
04327 template<> struct ConwayPolynomial<691, 9> { using ZPZ = aerobus::zpz<691>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<5>, ZPZV<55, ZPZV<556>, ZPZV<443>, ZPZV<688»;
        }; // NOLINT
04328 template<> struct ConwayPolynomial<701, 1> { using ZPZ = aerobus::zpz<701>; using type =
        POLYV<ZPZV<1>, ZPZV<699»; }; // NOLINT
04329 template<> struct ConwayPolynomial<701, 2> { using ZPZ = aerobus::zpz<701>; using type =
POLYV<ZPZV<1>, ZPZV<697>, ZPZV<2»; }; // NOLINT
04330 template<> struct ConwayPolynomial<701, 3> { using ZPZ = aerobus::zpz<701>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<699»; }; // NOLINT
04331 template<> struct ConwayPolynomial<701, 4> { using ZPZ = aerobus::zpz<701>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<379>, ZPZV<2»; }; // NOLINT
04332 template<> struct ConwayPolynomial<701, 5> { using ZPZ = aerobus::zpz<701>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<699»; }; // NOLINT
04333 template<> struct ConwayPolynomial<701, 6> { using ZPZ = aerobus::zpz<701>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<571>, ZPZV<327>, ZPZV<285>, ZPZV<2»; }; // NOLINT
04334 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<10>, ZPZV<699»; }; // NOLINT
04335 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<206>, ZPZV<593>, ZPZV<2»; }; //
        NOLINT
04336 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<45>, ZPZV<459>, ZPZV<473>, ZPZV<699»;
        }; // NOLINT
04337 template<> struct ConwayPolynomial<709, 1> { using ZPZ = aerobus::zpz<709>; using type =
        POLYV<ZPZV<1>, ZPZV<707»; }; // NOLINT
04338 template<> struct ConwayPolynomial<709, 2> { using ZPZ = aerobus::zpz<709>; using type =
        POLYV<ZPZV<1>, ZPZV<705>, ZPZV<2»; }; // NOLINT
04339 template<> struct ConwayPolynomial<709, 3> { using ZPZ = aerobus::zpz<709>; using type =
        \label{eq:polyv} \mbox{POLYV}<\mbox{ZPZV}<\mbox{1>, ZPZV}<\mbox{0>, ZPZV}<\mbox{2>, ZPZV}<\mbox{707}\mbox{w; }; \mbox{//NOLINT}
04340 template<> struct ConwayPolynomial<709, 4> { using ZPZ = aerobus::zpz<709>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<384>, ZPZV<2»; }; // NOLINT
04341 template<> struct ConwayPolynomial<709, 5> { using ZPZ = aerobus::zpz<709>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<707»; }; // NOLINT
04342 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
04343 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»; };
04344 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
04345 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<171>, ZPZV<707»;
        }; // NOLINT
04346 template<> struct ConwavPolynomial<719, 1> { using ZPZ = aerobus::zpz<719>; using type =
        POLYV<ZPZV<1>, ZPZV<708»; }; // NOLINT
04347 template<> struct ConwayPolynomial<719, 2> { using ZPZ = aerobus::zpz<719>; using type =
        POLYV<ZPZV<1>, ZPZV<715>, ZPZV<11»; }; // NOLINT
04348 template<> struct ConwayPolynomial</ri>
O4348 template<> struct ConwayPolynomial
O4349 template
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O4440 template
O4440 template</pre
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<602>, ZPZV<11»; }; // NOLINT
04350 template<> struct ConwayPolynomial<719, 5> { using ZPZ = aerobus::zpz<719>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<708»; }; // NOLINT
04351 template<> struct ConwayPolynomial<719, 6> { using ZPZ = aerobus::zpz<719>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<533>, ZPZV<591>, ZPZV<182>, ZPZV<11»; }; // NOLINT 04352 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<1>, ZPZV<11>, ZPZV<708»; }; // NOLINT
04353 template<> struct ConwayPolynomial<719, 8> { using ZPZ = aerobus::zpz<719>; using type
                                                                                                                        7.PZV<11»; }; //
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<714>, ZPZV<362>, ZPZV<244>,
        NOLINT
04354 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<28>, ZPZV<288>, ZPZV<560>, ZPZV<708»;
        }; // NOLINT
04355 template<> struct ConwayPolynomial<727, 1> { using ZPZ = aerobus::zpz<727>; using type =
        POLYV<ZPZV<1>, ZPZV<722»; }; // NOLINT
04356 template<> struct ConwayPolynomial<727, 2> { using ZPZ = aerobus::zpz<727>; using type =
POLYV<ZPZV<1>, ZPZV<725>, ZPZV<5»; }; // NOLINT
04357 template<> struct ConwayPolynomial<727, 3> { using ZPZ = aerobus::zpz<727>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<722»; }; // NOLINT
04358 template<> struct ConwayPolynomial<727, 4> { using ZPZ = aerobus::zpz<727>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<723>, ZPZV<723>, ZPZV<723>, ZPZV<5»; }; // NOLINT
04359 template<> struct ConwayPolynomial<727, 5> { using ZPZ = aerobus::zpz<727>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<722»; }; // NOLINT
04360 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
04361 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<0>, ZPZV<17>, ZPZV<722»; }; // NOLINT
04362 template<> struct ConwayPolynomial<727, 8> { using ZPZ = aerobus::zpz<727>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<639>, ZPZV<671>, ZPZV<368>, ZPZV<5»; }; //
        NOLINT
04363 template<> struct ConwayPolynomial<727, 9> { using ZPZ = aerobus::zpz<727>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<573>, ZPZV<502>, ZPZV<722»;
04364 template<> struct ConwayPolynomial<733, 1> { using ZPZ = aerobus::zpz<733>; using type =
        POLYV<ZPZV<1>, ZPZV<727»; }; // NOLINT
04365 template<> struct ConwayPolynomial<733, 2> { using ZPZ = aerobus::zpz<733>; using type =
         POLYV<ZPZV<1>, ZPZV<732>, ZPZV<6»; }; // NOLINT
04366 template<> struct ConwayPolynomial<733, 3> { using ZPZ = aerobus::zpz<733>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<727»; }; // NOLINT
04367 template<> struct ConwayPolynomial<733, 4> { using ZPZ = aerobus::zpz<733>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<539>, ZPZV<6»; }; // NOLINT
04368 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
04369 template<> struct ConwayPolynomial<733, 6> { using ZPZ = aerobus::zpz<733>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<14>, ZPZV<549>, ZPZV<151>, ZPZV<6»; }; // NOLINT
04370 template<> struct ConwayPolynomial<733, 7> { using ZPZ = aerobus::zpz<733>;
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<727»; };
04371 template<> struct ConwayPolynomial<733, 8> { using ZPZ = aerobus::zpz<733>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<532>, ZPZV<610>, ZPZV<142>, ZPZV<6»; }; //
         NOLINT
04372 template<> struct ConwayPolynomial<733, 9> { using ZPZ = aerobus::zpz<733>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<337>, ZPZV<6>, ZPZV<727»; };
         // NOLINT
04373 template<> struct ConwayPolynomial<739, 1> { using ZPZ = aerobus::zpz<739>; using type =
        POLYV<ZPZV<1>, ZPZV<736»; }; // NOLINT
04374 template<> struct ConwayPolynomial<739, 2> { using ZPZ = aerobus::zpz<739>; using type =
        POLYV<ZPZV<1>, ZPZV<734>, ZPZV<3»; }; // NOLINT
04375 template<> struct ConwayPolynomial<739, 3> { using ZPZ = aerobus::zpz<739>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<736»; }; // NOLINT
04376 template<> struct ConwayPolynomial<739, 4> { using ZPZ = aerobus::zpz<739>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<678>, ZPZV<3»; }; // NOLINT
04377 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
04378 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
04379 template<> struct ConwayPolynomial<739, 7> { using ZPZ = aerobus::zpz<739>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<44>, ZPZV<736»; }; // NOLINT
04380 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<25>, ZPZV<3»; }; //
04381 template<> struct ConwayPolynomial<739, 9> { using ZPZ = aerobus::zpz<739>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<616>, ZPZV<616>, ZPZV<81>, ZPZV<736»;
         }; // NOLINT
04382 template<> struct ConwayPolynomial<743, 1> { using ZPZ = aerobus::zpz<743>; using type =
         POLYV<ZPZV<1>, ZPZV<738»; }; // NOLINT
04383 template<> struct ConwayPolynomial<743, 2> { using ZPZ = aerobus::zpz<743>; using type =
                                                                 // NOLINT
         POLYV<ZPZV<1>, ZPZV<742>, ZPZV<5»; };
04384 template<> struct ConwayPolynomial<743, 3> { using ZPZ = aerobus::zpz<743>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<738»; }; // NOLINT
04385 template<> struct ConwayPolynomial<743, 4> { using ZPZ = aerobus::zpz<743>; using type =
POLYY<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<425>, ZPZV<425>, ZPZV<5»; }; // NOLINT
04386 template<> struct ConwayPolynomial<743, 5> { using ZPZ = aerobus::zpz<743>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<738»; }; // NOLINT
04387 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 04388 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<6>, ZPZV<6>, ZPZV<738»; }; // 04389 template<> struct ConwayPolynomial<743, 8> { using ZPZ = aerobus::zpz<743>; using type
                                                                                                                                   // NOLINT
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5»; }; //
         NOLINT
04390 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<32>, ZPZV<327>, ZPZV<676>, ZPZV<738»;
         }; // NOLINT
04391 template<> struct ConwayPolynomial<751, 1> { using ZPZ = aerobus::zpz<751>; using type =
         POLYV<ZPZV<1>, ZPZV<748»; }; // NOLINT
04392 template<> struct ConwayPolynomial<751, 2> { using ZPZ = aerobus::zpz<751>; using type =
POLYV<ZPZV<1>, ZPZV<749, ZPZV<3»; }; // NOLINT
04393 template<> struct ConwayPolynomial<751, 3> { using ZPZ = aerobus::zpz<751>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<748»; }; // NOLINT
04394 template<> struct ConwayPolynomial<751, 4> { using ZPZ = aerobus::zpz<751>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<525>, ZPZV<3»; }; // NOLINT
04395 template<> struct ConwayPolynomial<751, 5> { using ZPZ = aerobus::zpz<751>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<748»; }; // NOLINT
04396 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 04397 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<7>, ZPZV<748»; };
04398 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
         NOLTNT
04399 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<10>, ZPZV<703>, ZPZV<489>, ZPZV<7489;
         }; // NOLINT
04400 template<> struct ConwayPolynomial<757, 1> { using ZPZ = aerobus::zpz<757>; using type =
        POLYV<ZPZV<1>, ZPZV<755»; }; // NOLINT
04401 template<> struct ConwayPolynomial<757, 2> { using ZPZ = aerobus::zpz<757>; using type =
POLYV<ZPZV<1>, ZPZV<753>, ZPZV<2»; }; // NOLINT
04402 template<> struct ConwayPolynomial<757, 3> { using ZPZ = aerobus::zpz<757>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<755»; };
04403 template<> struct ConwayPolynomial<757, 4> { using ZPZ = aerobus::zpz<757>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<10>, ZPZV<537>, ZPZV<2»; }; // NOLINT
04404 template<> struct ConwayPolynomial<757, 5> { using ZPZ = aerobus::zpz<757>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<13>, ZPZV<755»; }; // NOLINT
04405 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
04406 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<4>, ZPZV<755»; };
04407 template<> struct ConwayPolynomial<757, 8> { using ZPZ = aerobus::zpz<757>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<12>, ZPZV<494>, ZPZV<110>, ZPZV<509>, ZPZV<2»; }; //
           NOLINT
04408 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<0>, ZPZV<8>, ZPZV<688>, ZPZV<702>, ZPZV<755»;
           }; // NOLINT
04409 template<> struct ConwayPolynomial<761, 1> { using ZPZ = aerobus::zpz<761>; using type =
          POLYV<ZPZV<1>, ZPZV<755»; }; // NOLINT
04410 template<> struct ConwayPolynomial<761, 2> { using ZPZ = aerobus::zpz<761>; using type =
           POLYV<ZPZV<1>, ZPZV<758>, ZPZV<6»; }; // NOLINT
04411 template<> struct ConwayPolynomial<761, 3> { using ZPZ = aerobus::zpz<761>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<12>, ZPZV<755»; }; // NOLINT
04412 template<> struct ConwayPolynomial<761, 4> { using ZPZ = aerobus::zpz<761>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<658>, ZPZV<6*, }; // NOLINT
04413 template<> struct ConwayPolynomial<761, 5> { using ZPZ = aerobus::zpz<761>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<755»; }; // NOLINT
04414 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
04415 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<6>, ZPZV<755»; };
04416 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<6*; }; //
           NOLINT
04417 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
04418 template<> struct ConwayPolynomial<769, 1> { using ZPZ = aerobus::zpz<769>; using type =
          POLYV<ZPZV<1>, ZPZV<758»; }; // NOLINT
04419 template<> struct ConwayPolynomial<769, 2> { using ZPZ = aerobus::zpz<769>; using type =
           POLYV<ZPZV<1>, ZPZV<765>, ZPZV<11»; }; // NOLINT
04420 template<> struct ConwayPolynomial<769, 3> { using ZPZ = aerobus::zpz<769>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<758»; }; // NOLINT
04421 template<> struct ConwayPolynomial<769, 4> { using ZPZ = aerobus::zpz<769>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<32>, ZPZV<741>, ZPZV<11»; }; // NOLINT
04422 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
04423 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
04424 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<0>, ZPZV<0>, ZPZV<8>, ZPZV<758»; };
                                                                                                                                                                 // NOLINT
04425 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»; }; //
04426 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<0>, ZPZV<623>, ZPZV<751>, ZPZV<758»;
           }; // NOLINT
04427 template<> struct ConwayPolynomial<773, 1> { using ZPZ = aerobus::zpz<773>; using type =
           POLYV<ZPZV<1>, ZPZV<771»; }; // NOLINT
04428 template<> struct ConwayPolynomial<773, 2> { using ZPZ = aerobus::zpz<773>; using type =
POLYV<ZPZV<1>, ZPZV<772>, ZPZV<2»; }; // NOLINT
04429 template<> struct ConwayPolynomial<773, 3> { using ZPZ = aerobus::zpz<773>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<771»; }; // NOLINT

04430 template<> struct ConwayPolynomial<773, 4> { using ZPZ = aerobus::zpz<773>; using type = Dolyv<ZPZVV1 + ZPZV<1 + ZPZV<1
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<44>, ZPZV<44>, ZPZV<2»; }; // NOLINT
04431 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
04432 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 04433 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<9>, ZPZV<771»; }; // NOLINT
04434 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
04435 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
04436 template<> struct ConwayPolynomial<787, 1> { using ZPZ = aerobus::zpz<787>; using type =
           POLYV<ZPZV<1>, ZPZV<785»; }; // NOLINT
04437 template<> struct ConwayPolynomial<787, 2> { using ZPZ = aerobus::zpz<787>; using type =
POLYV<ZPZV<1>, ZPZV<786>, ZPZV<2»; }; // NOLINT
04438 template<> struct ConwayPolynomial<787, 3> { using ZPZ = aerobus::zpz<787>; using type =
          POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<785»; }; // NOLINT
04439 template<> struct ConwayPolynomial<787, 4> { using ZPZ = aerobus::zpz<787>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<605>, ZPZV<2»; }; // NOLINT
04440 template<> struct ConwayPolynomial<787, 5> { using ZPZ = aerobus::zpz<787>; using type =
           \verb"POLYV<ZPZV<1>, \verb"ZPZV<0>, \verb"ZPZV<0>, \verb"ZPZV<0>, \verb"ZPZV<9>, \verb"ZPZV<785"; \verb"// NOLINT" | NOLI
04441 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
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04442 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<3>, ZPZV<785»; };
04443 template<> struct ConwayPolynomial<787, 8> { using ZPZ = aerobus::zpz<787>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<612>, ZPZV<26>, ZPZV<715>, ZPZV<2»; }; //
        NOLINT
04444 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>, ZPZV<573>, ZPZV<785»;
         }; // NOLINT
04445 template<> struct ConwayPolynomial<797, 1> { using ZPZ = aerobus::zpz<797>; using type =
        POLYV<ZPZV<1>, ZPZV<795»; }; // NOLINT
04446 template<> struct ConwayPolynomial<797, 2> { using ZPZ = aerobus::zpz<797>; using type =
POLYV<ZPZV<1>, ZPZV<793>, ZPZV<2»; }; // NOLINT
04447 template<> struct ConwayPolynomial<797, 3> { using ZPZ = aerobus::zpz<797>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<795»; }; // NOLINT
04448 template<> struct ConwayPolynomial<797, 4> { using ZPZ = aerobus::zpz<797>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<717>, ZPZV<2»; }; // NOLINT
04449 template<> struct ConwayPolynomial<797, 5> { using ZPZ = aerobus::zpz<797>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<795»; }; // NOLINT
04450 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
04451 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»; };
04452 template<> struct ConwayPolynomial<797, 8> { using ZPZ = aerobus::zpz<797>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<596>, ZPZV<747>, ZPZV<389>, ZPZV<2w; }; //
        NOLINT
04453 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
04454 template<> struct ConwayPolynomial<809, 1> { using ZPZ = aerobus::zpz<809>; using type =
        POLYV<ZPZV<1>, ZPZV<806»; }; // NOLINT
04455 template<> struct ConwayPolynomial<809, 2> { using ZPZ = aerobus::zpz<809>; using type =
        POLYV<ZPZV<1>, ZPZV<799>, ZPZV<3»; };
                                                              // NOLINT
04456 template<> struct ConwayPolynomial<809, 3> { using ZPZ = aerobus::zpz<809>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<806»; }; // NOLINT
04457 template<> struct ConwayPolynomial<809, 4> { using ZPZ = aerobus::zpz<809>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<644>, ZPZV<3»; }; // NOLINT
04458 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
04459 template<> struct ConwayPolynomial<809, 6> { using ZPZ = aerobus::zpz<809>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<562>, ZPZV<75>, ZPZV<43>, ZPZV<3»; }; // NOLINT
04460 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»; };
04461 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>; }; //
04462 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<727>, ZPZV<806»;
        }; // NOLINT
04463 template<> struct ConwavPolvnomial<811, 1> { using ZPZ = aerobus::zpz<811>; using type =
        POLYV<ZPZV<1>, ZPZV<808»; }; // NOLINT
04464 template<> struct ConwayPolynomial<811, 2> { using ZPZ = aerobus::zpz<811>; using type =
        POLYV<ZPZV<1>, ZPZV<806>, ZPZV<3»; }; // NOLINT
04465 template<> struct ConwayPolynomial<811, 3> { using ZPZ = aerobus::zpz<811>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<808»; }; // NOLINT
04466 template<> struct ConwayPolynomial<811, 4> { using ZPZ = aerobus::zpz<811>; using type =
POLYV<ZPZV<1>, ZPZV<3>, ZPZV<453>, ZPZV<453>, ZPZV<453>, ZPZV<453>, ZPZV<3>; }; // NOLINT
04467 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
04468 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 04469 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<1>, ZPZV<808»; }; // NOLINT
04470 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<525>, ZPZV<3»; }; //
        NOT.TNT
04471 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<10>, ZPZV<382>, ZPZV<380>, ZPZV<808»;
         }; // NOLINT
04472 template<> struct ConwayPolynomial<821, 1> { using ZPZ = aerobus::zpz<821>; using type =
        POLYV<ZPZV<1>, ZPZV<819»; }; // NOLINT
04473 template<> struct ConwayPolynomial<821, 2> { using ZPZ = aerobus::zpz<821>; using type =
        POLYV<ZPZV<1>, ZPZV<816>, ZPZV<2»; }; // NOLINT
04474 template<> struct ConwayPolynomial<821, 3> { using ZPZ = aerobus::zpz<821>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<819»; }; // NOLINT
04475 template<> struct ConwayPolynomial<821, 4> { using ZPZ = aerobus::zpz<821>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<15>, ZPZV<662>, ZPZV<2»; }; // NOLINT
04476 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
04477 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
04478 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<1>, ZPZV<10>, ZPZV<
04479 template<> struct ConwayPolynomial<821, 8> { using ZPZ = aerobus::zpz<821>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<626>, ZPZV<556>, ZPZV<589>, ZPZV<2»; }; //
04480 template<> struct ConwayPolynomial<821, 9> { using ZPZ = aerobus::zpz<821>; using type =
        POLYY<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<650>, ZPZV<557>, ZPZV<819»;
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}; // NOLINT
04481 template<> struct ConwayPolynomial<823, 1> { using ZPZ = aerobus::zpz<823>; using type =
       POLYV<ZPZV<1>, ZPZV<820»; }; // NOLINT
04482 template<> struct ConwayPolynomial<823, 2> { using ZPZ = aerobus::zpz<823>; using type =
POLYV<ZPZV<1>, ZPZV<821, ZPZV<3»; }; // NOLINT
04483 template<> struct ConwayPolynomial<823, 3> { using ZPZ = aerobus::zpz<823>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<820»; }; // NOLINT
04484 template<> struct ConwayPolynomial<823, 4> { using ZPZ = aerobus::zpz<823>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<819>, ZPZV<3»; }; // NOLINT
04485 template<> struct ConwayPolynomial<823, 5> { using ZPZ = aerobus::zpz<823>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<820»; }; // NOLINT
04486 template<> struct ConwayPolynomial<823, 6> { using ZPZ = aerobus::zpz<823>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<822>, ZPZV<616>, ZPZV<744>, ZPZV<3»; ); // NOLINT 04487 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»; };
04488 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
04489 template<> struct ConwayPolynomial<823, 9> { using ZPZ = aerobus::zpz<823>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<60, ZPZV<740>, ZPZV<609>, ZPZV<820»;
       }; // NOLINT
04490 template<> struct ConwayPolynomial<827, 1> { using ZPZ = aerobus::zpz<827>; using type =
       POLYV<ZPZV<1>, ZPZV<825»; }; // NOLINT
04491 template<> struct ConwayPolynomial<827, 2> { using ZPZ = aerobus::zpz<827>; using type =
POLYV<ZPZV<1>, ZPZV<821>, ZPZV<2»; }; // NOLINT
04492 template<> struct ConwayPolynomial<827, 3> { using ZPZ = aerobus::zpz<827>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<825»; }; // NOLINT
04493 template<> struct ConwayPolynomial<827, 4> { using ZPZ = aerobus::zpz<827>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<18>, ZPZV<605>, ZPZV<2»; }; // NOLINT
04494 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
04495 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
04496 template<> struct ConwayPolynomial<827, 7> { using ZPZ = aerobus::zpz<827>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<825»; };
04497 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»; }; //
04498 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»;
       }; // NOLINT
04499 template<> struct ConwayPolynomial<829, 1> { using ZPZ = aerobus::zpz<829>; using type =
       POLYV<ZPZV<1>, ZPZV<827»; }; // NOLINT
04500 template<> struct ConwayPolynomial<829, 2> { using ZPZ = aerobus::zpz<829>; using type =
       POLYV<ZPZV<1>, ZPZV<828>, ZPZV<2»; }; // NOLINT
04501 template<> struct ConwayPolynomial<829, 3> { using ZPZ = aerobus::zpz<829>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<827»; }; // NOLINT
04502 template<> struct ConwayPolynomial<829, 4> { using ZPZ = aerobus::zpz<829>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<9>, ZPZV<604>, ZPZV<2»; }; // NOLINT

04503 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
04504 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
04505 template<> struct ConwayPolynomial<829, 7> { using ZPZ = aerobus::zpz<829>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<827»; };
04506 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»; }; //
04507 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»;
       }; // NOLINT
04508 template<> struct ConwayPolynomial<839, 1> { using ZPZ = aerobus::zpz<839>; using type =
       POLYV<ZPZV<1>, ZPZV<828»; }; // NOLINT
04509 template<> struct ConwayPolynomial<839, 2> { using ZPZ = aerobus::zpz<839>; using type =
POLYV<ZPZV<1>, ZPZV<838>, ZPZV<11»; }; // NOLINT

04510 template<> struct ConwayPolynomial<839, 3> { using ZPZ = aerobus::zpz<839>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<828»; }; // NOLINT

04511 template<> struct ConwayPolynomial<839, 4> { using ZPZ = aerobus::zpz<839>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<609>, ZPZV<11»; }; // NOLINT

04512 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
04513 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 04514 template<> struct ConwayPolynomial<839, 7> { 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<7>, ZPZV<828»; };
04515 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»; }; //
04516 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<349>, ZPZV<349>, ZPZV<206>, ZPZV<828%;
        }; // NOLINT
04517 template<> struct ConwayPolynomial<853, 1> { using ZPZ = aerobus::zpz<853>; using type =
       POLYV<ZPZV<1>, ZPZV<851»; }; // NOLINT
04518 template<> struct ConwayPolynomial<853, 2> { using ZPZ = aerobus::zpz<853>; using type =
POLYV<ZPZV<1>, ZPZV<852>, ZPZV<2»; }; // NOLINT
04519 template<> struct ConwayPolynomial<853, 3> { using ZPZ = aerobus::zpz<853>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<851»; }; // NOLINT
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04520 template<> struct ConwayPolynomial<853, 4> { using ZPZ = aerobus::zpz<853>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<623>, ZPZV<623>, ZPZV<2»; }; // NOLINT
04521 template<> struct ConwayPolynomial<853, 5> { using ZPZ = aerobus::zpz<853>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<851»; }; // NOLINT
04522 template<> struct ConwayPolynomial<853, 6> { using ZPZ = aerobus::zpz<853>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<276>, ZPZV<194>, ZPZV<512>, ZPZV<2»; }; // NOLINT
04523 template<> struct ConwayPolynomial<853, 7> { using ZPZ = aerobus::zpz<853>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<4>, ZPZV<45, ZPZV<851»; };
04524 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»; }; //
       NOLINT
04525 template<> struct ConwayPolynomial<853, 9> { using ZPZ = aerobus::zpz<853>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<677>, ZPZV<821>, ZPZV<851»;
       }; // NOLINT
04526 template<> struct ConwayPolynomial<857, 1> { using ZPZ = aerobus::zpz<857>; using type =
       POLYV<ZPZV<1>, ZPZV<854»; }; // NOLINT
04527 template<> struct ConwayPolynomial<857, 2> { using ZPZ = aerobus::zpz<857>; using type =
POLYV<ZPZV<1>, ZPZV<850>, ZPZV<3»; }; // NOLINT
04528 template<> struct ConwayPolynomial<857, 3> { using ZPZ = aerobus::zpz<857>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<854»; }; // NOLINT
04529 template<> struct ConwayPolynomial<857, 4> { using ZPZ = aerobus::zpz<857>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<528>, ZPZV<3»; }; // NOLINT
04530 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
04531 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»; ); // NOLINT
04532 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<7>, ZPZV<854»; };
04533 template<> struct ConwayPolynomial<857, 8> { using ZPZ = aerobus::zpz<857>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<611>, ZPZV<552>, ZPZV<494>, ZPZV<3»; }; //
      NOLINT
04534 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<0>, ZPZV<308>, ZPZV<719>, ZPZV<854»;
       }; // NOLINT
04535 template<> struct ConwayPolynomial<859, 1> { using ZPZ = aerobus::zpz<859>; using type =
      POLYV<ZPZV<1>, ZPZV<857»; }; // NOLINT
04536 template<> struct ConwayPolynomial<859, 2> { using ZPZ = aerobus::zpz<859>; using type =
      POLYV<ZPZV<1>, ZPZV<858>, ZPZV<2»; }; // NOLINT
04537 template<> struct ConwayPolynomial<859, 3> { using ZPZ = aerobus::zpz<859>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<857»; }; // NOLINT
04538 template<> struct ConwayPolynomial<859, 4> { using ZPZ = aerobus::zpz<859>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<530>, ZPZV<2»; }; // NOLINT
04539 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
04540 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»; };
04541 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
04542 template<> struct ComwayPolynomial<859, 8> { using ZPZ = aerobus::zpz<859>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5, ZPZV<446>, ZPZV<672>, ZPZV<672>, ZPZV<672>; //
04543 template<> struct ConwayPolynomial<859, 9> { using ZPZ = aerobus::zpz<859>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<648>, ZPZV<845>, ZPZV<857»;
       }; // NOLINT
04544 template<> struct ConwayPolynomial<863, 1> { using ZPZ = aerobus::zpz<863>; using type =
      POLYV<ZPZV<1>, ZPZV<858»; }; // NOLINT
04545 template<> struct ConwayPolynomial<863, 2> { using ZPZ = aerobus::zpz<863>; using type =
       POLYV<ZPZV<1>, ZPZV<862>, ZPZV<5»; }; // NOLINT
04546 template<> struct ConwayPolynomial<863, 3> { using ZPZ = aerobus::zpz<863>; using type =
      04547 template<> struct ConwayPolynomial<863, 4> { using ZPZ = aerobus::zpz<863>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<770>, ZPZV<5»; }; // NOLINT
04548 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
04549 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
04550 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<858»; };
                                                                                                      // NOLINT
04551 template<> struct ConwayPolynomial<863, 8> { using ZPZ = aerobus::zpz<863>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<9>, ZPZV<765>, ZPZV<576>, ZPZV<849>, ZPZV<58; }; //
04552 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<381>, ZPZV<4>, ZPZV<858»; };
       // NOLINT
04553 template<> struct ConwayPolynomial<877, 1> { using ZPZ = aerobus::zpz<877>; using type =
       POLYV<ZPZV<1>, ZPZV<875»; }; // NOLINT
04554 template<> struct ConwayPolynomial<877, 2> { using ZPZ = aerobus::zpz<877>; using type =
POLYV<ZPZV<1>, ZPZV<873, ZPZV<2»; }; // NOLINT
04555 template<> struct ConwayPolynomial<877, 3> { using ZPZ = aerobus::zpz<877>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<875»; }; // NOLINT
04556 template<> struct ConwayPolynomial<877, 4> { using ZPZ = aerobus::zpz<877>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<604>, ZPZV<2»; }; // NOLINT
04557 template<> struct ConwayPolynomial<877, 5> { using ZPZ = aerobus::zpz<877>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<875»; }; // NOLINT
04558 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 04559 template<> struct ConwayPolynomial<877, 7> { using ZPZ = aerobus::zpz<877>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<3>, ZPZV<875»; };
04560 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<2»; }; //
       NOLINT
04561 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<5, ZPZV<770>, ZPZV<278>, ZPZV<875»;
04562 template<> struct ConwayPolynomial<881, 1> { using ZPZ = aerobus::zpz<881>; using type =
       POLYV<ZPZV<1>, ZPZV<878»; }; // NOLINT
04563 template<> struct ConwayPolynomial<881, 2> { using ZPZ = aerobus::zpz<881>; using type =
POLYY<ZPZV<1>, ZPZV<869>, ZPZV<3»; }; // NOLINT
04564 template<> struct ConwayPolynomial<881, 3> { using ZPZ = aerobus::zpz<881>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<878»; }; // NOLINT
04565 template<> struct ConwayPolynomial<881, 4> { using ZPZ = aerobus::zpz<881>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<447>, ZPZV<3»; }; // NOLINT
04566 template<> struct ConwayPolynomial<881, 5> { using ZPZ = aerobus::zpz<881>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<8>, ZPZV<878»; }; // NOLINT
04567 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
04568 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<878»; };
04569 template<> struct ConwayPolynomial<881, 8> { using ZPZ = aerobus::zpz<881>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<21>, ZPZV<635>, ZPZV<490>, ZPZV<561>, ZPZV<3»; }; //
       NOLINT
04570 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<0>, ZPZV<2>, ZPZV<587>, ZPZV<510>, ZPZV<878»;
       }; // NOLINT
04571 template<> struct ConwayPolynomial<883, 1> { using ZPZ = aerobus::zpz<883>; using type =
       POLYV<ZPZV<1>, ZPZV<881»; }; // NOLINT
04572 template<> struct ConwayPolynomial<883, 2> { using ZPZ = aerobus::zpz<883>; using type =
POLYV<ZPZV<1>, ZPZV<879>, ZPZV<2»; }; // NOLINT

04573 template<>> struct ConwayPolynomial<883, 3> { using ZPZ = aerobus::zpz<883>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<6>, ZPZV<881»; }; // NOLINT
04574 template<> struct ConwayPolynomial<883, 4> { using ZPZ = aerobus::zpz<883>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<8>, ZPZV<715>, ZPZV<2»; }; // NOLINT
04575 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
04576 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
04577 template<> struct ConwayPolynomial<883, 7> { using ZPZ = aerobus::zpz<883>;
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<81»; };
04578 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<28; }; //
04579 template<> struct ConwayPolynomial<883, 9> { using ZPZ = aerobus::zpz<883>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<360>, ZPZV<557>, ZPZV<881»;
       }; // NOLINT
04580 template<> struct ConwayPolynomial<887, 1> { using ZPZ = aerobus::zpz<887>; using type =
       POLYV<ZPZV<1>, ZPZV<882»; }; // NOLINT
04581 template<> struct ConwayPolynomial<887, 2> { using ZPZ = aerobus::zpz<887>; using type =
POLYV<ZPZV<1>, ZPZV<885>, ZPZV<5»; }; // NOLINT
04582 template<> struct ConwayPolynomial<887, 3> { using ZPZ = aerobus::zpz<887>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<882»; }; // NOLINT
04583 template<> struct ConwayPolynomial<887, 4> { using ZPZ = aerobus::zpz<887>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<883>, ZPZV<5>; }; // NOLINT
04584 template<> struct ConwayPolynomial<887, 5> { using ZPZ = aerobus::zpz<887>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<882»; }; // NOLINT
04585 template<> struct ConwayPolynomial<887, 6> { using ZPZ = aerobus::zpz<887>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<775>, ZPZV<341>, ZPZV<28>, ZPZV<5»; }; // NOLINT
04586 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<82»; };
                                                                                                        // NOLINT
04587 template<> struct ComwayPolynomial<887, 8> { using ZPZ = aerobus::zpz<887>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<781>, ZPZV<381>, ZPZV<706>, ZPZV<5»; }; //
04588 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>, ZPZV<882»;
       }; // NOLINT
04589 template<> struct ConwayPolynomial<907, 1> { using ZPZ = aerobus::zpz<907>; using type =
       POLYV<ZPZV<1>, ZPZV<905»; }; // NOLINT
04590 template<> struct ConwayPolynomial<907, 2> { using ZPZ = aerobus::zpz<907>; using type =
POLYV<ZPZV<1>, ZPZV<903>, ZPZV<2»; }; // NOLINT
04591 template<> struct ConwayPolynomial<907, 3> { using ZPZ = aerobus::zpz<907>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<905»; }; // NOLINT
04592 template<> struct ConwayPolynomial<907, 4> { using ZPZ = aerobus::zpz<907>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<14>, ZPZV<478>, ZPZV<2»; }; // NOLINT
04593 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
04594 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<28*; }; // NOLINT 04595 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<2>, ZPZV<2>, ZPZV<905»; }; // NOLINT
04596 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<2»; }; //
04597 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<785>, ZPZV<905»;
       }; // NOLINT
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04598 template<> struct ConwayPolynomial<911, 1> { using ZPZ = aerobus::zpz<911>; using type =
       POLYV<ZPZV<1>, ZPZV<894»; }; // NOLINT
04599 template<> struct ConwayPolynomial<911, 2> { using ZPZ = aerobus::zpz<911>; using type =
POLYV<ZPZV<1>, ZPZV<909, ZPZV<17»; }; // NOLINT
04600 template<> struct ConwayPolynomial<911, 3> { using ZPZ = aerobus::zpz<911>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<894»; }; // NOLINT
04601 template<> struct ConwayPolynomial<911, 4> { using ZPZ = aerobus::zpz<911>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<11>, ZPZV<887>, ZPZV<17»; }; // NOLINT
04602 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
04603 template<> struct ConwayPolynomial<911, 6> { using ZPZ = aerobus::zpz<911>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<17>, ZPZV<683>, ZPZV<19>, ZPZV<17»; }; // NOLINT 04604 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<0>, ZPZV<4>, ZPZV<894»; };
04605 template<> struct ConwayPolynomial<911, 8> { using ZPZ = aerobus::zpz<911>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<708>, ZPZV<590>, ZPZV<168>, ZPZV<17*; }; //
       NOLTNT
04606 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<616>, ZPZV<894»;
04607 template<> struct ConwayPolynomial<919, 1> { using ZPZ = aerobus::zpz<919>; using type =
      POLYV<ZPZV<1>, ZPZV<912»; }; // NOLINT
04608 template<> struct ConwayPolynomial<919, 2> { using ZPZ = aerobus::zpz<919>; using type =
POLYV<ZPZV<1>, ZPZV<910>, ZPZV<7»; }; // NOLINT
04609 template<> struct ConwayPolynomial<919, 3> { using ZPZ = aerobus::zpz<919>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<912»; }; // NOLINT
04610 template<> struct ConwayPolynomial<919, 4> { using ZPZ = aerobus::zpz<919>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<602>, ZPZV<7»; }; // NOLINT
04611 template<> struct ConwayPolynomial<919, 5> { using ZPZ = aerobus::zpz<919>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<1>, ZPZV<912»; }; // NOLINT

04612 template<> struct ConwayPolynomial<919, 6> { using ZPZ = aerobus::zpz<919>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<312>, ZPZV<817>, ZPZV<113>, ZPZV<7»; };
04613 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<9>, ZPZV<912»; };
04614 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
04615 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<0>, ZPZV<42>, ZPZV<410>, ZPZV<623>, ZPZV<912»;
       }; // NOLINT
04616 template<> struct ConwayPolynomial<929, 1> { using ZPZ = aerobus::zpz<929>; using type =
      POLYV<ZPZV<1>, ZPZV<926»; }; // NOLINT
04617 template<> struct ConwayPolynomial<929, 2> { using ZPZ = aerobus::zpz<929>; using type =
       POLYV<ZPZV<1>, ZPZV<917>, ZPZV<3»; }; // NOLINT
04618 template<> struct ConwayPolynomial<929, 3> { using ZPZ = aerobus::zpz<929>; using type =
                                                             // NOLINT
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<926»; };
04619 template<> struct ConwayPolynomial<929, 4> { using ZPZ = aerobus::zpz<929>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<787>, ZPZV<3»; }; // NOLINT

04620 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
04621 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
04622 template<> struct ConwayPolynomial<929, 7> { using ZPZ = aerobus::zpz<929>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<7>, ZPZV<926»; };
04623 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»; }; //
04624 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»;
       }; // NOLINT
04625 template<> struct ConwayPolynomial<937, 1> { using ZPZ = aerobus::zpz<937>; using type =
      POLYV<ZPZV<1>, ZPZV<932»; }; // NOLINT
04626 template<> struct ConwayPolynomial<937, 2> { using ZPZ = aerobus::zpz<937>; using type =
       POLYV<ZPZV<1>, ZPZV<934>, ZPZV<5»; }; // NOLINT
04627 template<> struct ConwayPolynomial<937, 3> { using ZPZ = aerobus::zpz<937>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<932»; }; // NOLINT
04628 template<> struct ConwayPolynomial<937, 4> { using ZPZ = aerobus::zpz<937>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<23>, ZPZV<585>, ZPZV<58; }; // NOLINT
04629 template<> struct ConwayPolynomial<937, 5> { using ZPZ = aerobus::zpz<937>; using type =
      POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<5>, ZPZV<932»; }; // NOLINT
04630 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
04631 template<> struct ConwayPolynomial<937, 7> { using ZPZ = aerobus::zpz<937>; using type =
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<2>, ZPZV<24>, ZPZV<24>, ZPZV<932»; }; // NOLINT
04632 template<> struct ConwayPolynomial<937, 8> { using ZPZ = aerobus::zpz<937>; using type
       POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<658>, ZPZV<26>, ZPZV<53>, ZPZV<5»; }; //
       NOLINT
04633 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
04634 template<> struct ConwayPolynomial<941, 1> { using ZPZ = aerobus::zpz<941>; using type =
       POLYV<ZPZV<1>, ZPZV<939»; }; // NOLINT
04635 template<> struct ConwayPolynomial<941, 2> { using ZPZ = aerobus::zpz<941>; using type =
      POLYV<ZPZV<1>, ZPZV<940>, ZPZV<2»; }; // NOLINT
04636 template<> struct ConwayPolynomial<941, 3> { using ZPZ = aerobus::zpz<941>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<939»; }; // NOLINT
04637 template<> struct ConwayPolynomial<941, 4> { using ZPZ = aerobus::zpz<941>; using type =
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POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<505>, ZPZV<2»; }; // NOLINT
04638 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
04639 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 04640 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<49, ZPZV<939»; }; // NOLINT
04641 template<> struct ConwayPolynomial<941, 8> { using ZPZ = aerobus::zpz<941>; using type
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<675>, ZPZV<590>, ZPZV<590>, ZPZV<2»; }; //
           NOLINT
04642 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<0>, ZPZV<1>, ZPZV<1>, ZPZV<10, ZPZV<19>, ZPZV<19>, ZPZV<19>, ZPZV<19>, ZPZV<10, ZP
            }: // NOLINT
04643 template<> struct ConwayPolynomial<947, 1> { using ZPZ = aerobus::zpz<947>; using type =
           POLYV<ZPZV<1>, ZPZV<945»; }; // NOLINT
04644 template<> struct ConwayPolynomial<947, 2> { using ZPZ = aerobus::zpz<947>; using type =
POLYV<ZPZV<1>, ZPZV<943>, ZPZV<2»; }; // NOLINT
04645 template<> struct ConwayPolynomial<947, 3> { using ZPZ = aerobus::zpz<947>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<945»; }; // NOLINT
04646 template<> struct ConwayPolynomial<947, 4> { using ZPZ = aerobus::zpz<947>; using type =
POLYV<ZPZV<1>, ZPZV<6>, ZPZV<8>, ZPZV<894>, ZPZV<2»; }; // NOLINT
04647 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
04648 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
04649 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>, ZPZV<6>, ZPZV<945»; };
04650 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»; }; //
           NOLINT
04651 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<0>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6>, ZPZV<6 , Z
04652 template<> struct ConwayPolynomial<953, 1> { using ZPZ = aerobus::zpz<953>; using type =
           POLYV<ZPZV<1>, ZPZV<950»; }; // NOLINT
04653 template<> struct ConwayPolynomial<953, 2> { using ZPZ = aerobus::zpz<953>; using type =
POLYV<ZPZV<1>, ZPZV<947>, ZPZV<3»; }; // NOLINT
04654 template<> struct ConwayPolynomial<953, 3> { using ZPZ = aerobus::zpz<953>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<7>, ZPZV<950»; }; // NOLINT
04655 template<> struct ConwayPolynomial<953, 4> { using ZPZ = aerobus::zpz<953>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<865>, ZPZV<3»; }; // NOLINT
04656 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
04657 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
04658 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<950»; };
04659 template<> struct ConwayPolynomial<953, 8> { using ZPZ = aerobus::zpz<953>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<6>, ZPZV<65, ZPZV<658>, ZPZV<108>, ZPZV<108>, ZPZV<3»; }; //
           NOT.TNT
04660 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<0>, ZPZV<1>, ZPZV<819>, ZPZV<316>, ZPZV<950»;
            }; // NOLINT
04661 template<> struct ConwayPolynomial<967, 1> { using ZPZ = aerobus::zpz<967>; using type =
           POLYV<ZPZV<1>, ZPZV<962»; }; // NOLINT
04662 template<> struct ConwayPolynomial<967, 2> { using ZPZ = aerobus::zpz<967>; using type =
           POLYV<ZPZV<1>, ZPZV<965>, ZPZV<5»; }; // NOLINT
04663 template<> struct ConwayPolynomial<967, 3> { using ZPZ = aerobus::zpz<967>; using type =
           POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<962»; }; // NOLINT
04664 template<> struct ConwayPolynomial<967, 4> { using ZPZ = aerobus::zpz<967>; using type =
POLYV<ZPZV<1>, ZPZV<3>, ZPZV<963>, ZPZV<5»; }; // NOLINT

04665 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
04666 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
04667 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<9>, ZPZV<9>, ZPZV<962»; }; // NOLINT
04668 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
04669 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>, ZPZV<962»;
            }; // NOLINT
04670 template<> struct ConwayPolynomial<971, 1> { using ZPZ = aerobus::zpz<971>; using type =
           POLYV<ZPZV<1>, ZPZV<965»; }; // NOLINT
04671 template<> struct ConwayPolynomial<971, 2> { using ZPZ = aerobus::zpz<971>; using type =
           POLYV<ZPZV<1>, ZPZV<970>, ZPZV<6»; }; // NOLINT
04672 template<> struct ConwayPolynomial<971, 3> { using ZPZ = aerobus::zpz<971>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<3>, ZPZV<965»; }; // NOLINT
04673 template<> struct ConwayPolynomial<971, 4> { using ZPZ = aerobus::zpz<971>; using type =
POLYV<ZPZV<1>, ZPZV<2>, ZPZV<527>, ZPZV<527>, ZPZV<6%; }; // NOLINT
04674 template<> struct ConwayPolynomial<971, 5> { using ZPZ = aerobus::zpz<971>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<04>, ZPZV<965»; }; // NOLINT
04675 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 04676 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<1>, ZPZV<1>, ZPZV<1>; // 1
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04677 template<> struct ConwayPolynomial<971, 8> { using ZPZ = aerobus::zpz<971>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<25>, ZPZV<281>, ZPZV<206>, ZPZV<6»; }; //
         NOLTNT
04678 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<805>, ZPZV<473>, ZPZV<965»;
         }; // NOLINT
04679 template<> struct ConwayPolynomial<977, 1> { using ZPZ = aerobus::zpz<977>; using type =
         POLYV<ZPZV<1>, ZPZV<974»; }; // NOLINT
04680 template<> struct ConwayPolynomial<977, 2> { using ZPZ = aerobus::zpz<977>; using type =
POLYV<ZPZV<1>, ZPZV<972>, ZPZV<3»; }; // NOLINT
04681 template<> struct ConwayPolynomial<977, 3> { using ZPZ = aerobus::zpz<977>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<974»; }; // NOLINT
04682 template<> struct ConwayPolynomial<977, 4> { using ZPZ = aerobus::zpz<977>; using type = POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<800>, ZPZV<3»; }; // NOLINT
04683 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
04684 template<> struct ConwayPolynomial<977, 6> { using ZPZ = aerobus::zpz<977>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<72>, ZPZV<725, ZPZV<753>, ZPZV<3>; J/ NOLINT 04685 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<0>, ZPZV<7>, ZPZV<7>, ZPZV<974»; };
04686 template<> struct ConwayPolynomial<977, 8> { using ZPZ = aerobus::zpz<977>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<855>, ZPZV<807>, ZPZV<77>, ZPZV<3»; }; //
         NOLINT
04687 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<5, ZPZV<450>, ZPZV<450>, ZPZV<740>, ZP
         }; // NOLINT
04688 template<> struct ConwayPolynomial<983, 1> { using ZPZ = aerobus::zpz<983>; using type =
        POLYV<ZPZV<1>, ZPZV<978»; }; // NOLINT
04689 template<> struct ConwayPolynomial<983, 2> { using ZPZ = aerobus::zpz<983>; using type =
POLYV<ZPZV<1>, ZPZV<981>, ZPZV<5»; }; // NOLINT

04690 template<> struct ConwayPolynomial<983, 3> { using ZPZ = aerobus::zpz<983>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<1>, ZPZV<978»; }; // NOLINT
04691 template<> struct ConwayPolynomial<983, 4> { using ZPZ = aerobus::zpz<983>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<5>, ZPZV<567>, ZPZV<5»; }; // NOLINT
04692 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
04693 template<> struct ConwayPolynomial<983, 6> { using ZPZ = aerobus::zpz<983>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<849>, ZPZV<296>, ZPZV<228>, ZPZV<5»; }; // NOLINT
04694 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<978»; };
04695 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<5»; }; //
         NOLINT
04696 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<87>, ZPZV<87>, ZPZV<87
         }; // NOLINT
04697 template<> struct ConwayPolynomial<991, 1> { using ZPZ = aerobus::zpz<991>; using type =
        POLYV<ZPZV<1>, ZPZV<985»; }; // NOLINT
04698 template<> struct ConwayPolynomial<991, 2> { using ZPZ = aerobus::zpz<991>; using type =
POLYV<ZPZV<1>, ZPZV<989>, ZPZV<6»; }; // NOLINT
04699 template<>> struct ConwayPolynomial<991, 3> { using ZPZ = aerobus::zpz<991>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<985»; }; // NOLINT
04700 template<> struct ConwayPolynomial<991, 4> { using ZPZ = aerobus::zpz<991>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<10>, ZPZV<794>, ZPZV<6»; }; // NOLINT
04701 template<> struct ConwayPolynomial<991, 5> { using ZPZ = aerobus::zpz<991>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<985s; }; // NOLINT
04702 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
04703 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<7>, ZPZV<7>, ZPZV<985»; };
04704 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
04705 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<466>, ZPZV<222>, ZPZV<985»;
         }; // NOLINT
04706 template<> struct ConwayPolynomial<997, 1> { using ZPZ = aerobus::zpz<997>; using type =
         POLYV<ZPZV<1>, ZPZV<990»; }; // NOLINT
04707 template<> struct ConwayPolynomial<997, 2> { using ZPZ = aerobus::zpz<997>; using type =
        POLYV<ZPZV<1>, ZPZV<995>, ZPZV<7»; };
                                                                 // NOLINT
04708 template<> struct ConwayPolynomial<997, 3> { using ZPZ = aerobus::zpz<997>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<2>, ZPZV<990»; }; // NOLINT
04709 template<> struct ConwayPolynomial<997, 4> { using ZPZ = aerobus::zpz<997>; using type =
POLYV<ZPZV<1>, ZPZV<0>, ZPZV<4>, ZPZV<622>, ZPZV<7»; }; // NOLINT
04710 template<> struct ConwayPolynomial<997, 5> { using ZPZ = aerobus::zpz<997>; using type =
        POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<10>, ZPZV<990»; }; // NOLINT
04711 template<> struct ConwayPolynomial<997, 6> { using ZPZ = aerobus::zpz<997>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<981>, ZPZV<56>, ZPZV<260>, ZPŽV<7»; }; // NOLINT
04712 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<990»; };
                                                                                                                                    // NOLINT
04713 template<> struct ConwayPolynomial<997, 8> { using ZPZ = aerobus::zpz<997>; using type
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<473>, ZPZV<241>, ZPZV<7»; }; //
04714 template<> struct ConwayPolynomial<997, 9> { using ZPZ = aerobus::zpz<997>; using type =
         POLYV<ZPZV<1>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<0>, ZPZV<3>, ZPZV<732>, ZPZV<716-, ZPZV<990»;
         }; // NOLINT
04715 #endif // AEROBUS_CONWAY_IMPORTS
```

04716 04717 #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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