Rust Quiz

- 4 questions
- 50 seconds per question

```
struct S {
    f: fn(),
impl S {
    fn f(&self) {
        print!("1");
fn main() {
    let print2 = || print!("2");
    S { f: print2 }.f();
```

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struct S {
    f: fn(),
impl S {
    fn f(&self) {
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fn main() {
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    S { f: print2 }.f();
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```
struct S {
    f: fn(),
impl S {
    fn f(&self) {
        print!("1");
fn main() {
    let print2 = || print!("2");
    S { f: print2 }.f();
    (S { f: print2 }.f)();
```

```
struct D(u8);
impl Drop for D {
    fn drop(&mut self) {
        print!("{}", self.0);
struct S {
   d: D,
   x: u8,
fn main() {
    let S \{ x, ... \} = S \{ d: D(1), x: 2 \};
    print!("{}", x);
    let S { ref x, .. } = S { d: D(3), x: 4 };
    print!("{}", x);
```

```
struct D(u8);
impl Drop for D {
    fn drop(&mut self) {
                                      1243
        print!("{}", self.0);
struct S {
   d: D,
   x: u8,
fn main() {
    let S \{ x, ... \} = S \{ d: D(1), x: 2 \};
    print!("{}", x);
    let S { ref x, .. } = S { d: D(3), x: 4 };
    print!("{}", x);
```

```
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```

```
struct S(i32);
impl std::ops::BitAnd<S> for () {
   type Output = ();
   fn bitand(self, rhs: S) {
       print!("{}", rhs.0);
fn main() {
   let f = || ( ( ) & S(1) );
   let g = || \{ () \& S(2) \};
   let i = | \{ \{ \} \& S(4) \};
   f();
   g();
   h();
   i();
```

```
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impl std::ops::BitAnd<S> for () {
   type Output = ();
   fn bitand(self, rhs: S) {
       print!("{}", rhs.0);
fn main() {
   let f = || ( ( ) & S(1) );
   let g = | \{ () \& S(2) \};
   let i = | \{ \{ \} \& S(4) \};
   f();
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   i();
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```
struct S(i32);
impl std::ops::BitAnd<S> for () {
    type Output = ();
    fn bitand(self, rhs: S) {
        print!("{}", rhs.0);
fn main() {
    let f = || (() & S(1));
    let g = || () & S(2);
    let h = || ({} & S(3));
    let i = | {
        {}
        &S(4)
    f();
    g();
```

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```
#[repr(u8)]
enum Enum {
    First = 0,
    Second = 1,
impl Enum {
    fn p(self) {
        match self {
            First => print!("1"),
            Second => print!("2"),
fn main() {
    Enum::p(unsafe { std::mem::transmute(1u8) });
```

```
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enum Enum {
    First = 0,
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impl Enum {
    fn p(self) {
        match self {
            First => print!("1"),
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fn main() {
    Enum::p(unsafe { std::mem::transmute(1u8) });
```

```
4
```

```
macro rules! m {
    (\$(\$t:tt)*) => {
        stringify!($($t)*=*)
fn main() {
    println!("{}", m!(a b));
```

```
5
```

```
macro rules! m {
    ($($t:tt)*) => {
        stringify!($($t)*=*)
fn main() {
    println!("{}", m!(a b));
```

```
5
```

```
macro rules! m {
    (\$(\$t:tt)*) => {
        stringify!($($t) *=
fn main() {
    println!("{}", m!(a b));
```

```
pub trait Trait {
    fn f(&self);
impl<'a> dyn Trait + 'a {
    pub fn f(&self) {
       print!("1");
impl Trait for bool {
    fn f(&self) {
        print!("2");
fn main() {
    Trait::f(&true);
    Trait::f(&true as &dyn Trait);
    < as Trait>::f(&true);
    < as Trait>::f(&true as &dyn Trait);
    <bool as Trait>::f(&true);
```

```
pub trait Trait {
    fn f(&self);
impl<'a> dyn Trait + 'a {
                                22222
    pub fn f(&self) {
       print!("1");
impl Trait for bool {
    fn f(&self) {
       print!("2");
fn main() {
    Trait::f(&true);
    Trait::f(&true as &dyn Trait);
    < as Trait>::f(&true);
    < as Trait>::f(&true as &dyn Trait);
    <bool as Trait>::f(&true);
```

```
struct S {
    x: i32,
const S: S = S \{ x: 2 \};
fn main() {
    let v = \&mut S;
    v.x += 1;
    S.x += 1;
    print!("{}{}", v.x, S.x);
```

```
7
```

```
32
```

```
const S: S = S \{ x: 2 \};
fn main() {
    let v = \&mut S;
    v.x += 1;
    S.x += 1;
    print!("{}{}", v.x, S.x);
```

struct S {

x: i32,