Coding Cup - Answer Key

Contents

Basic Training

- Basic Training Module 4 Solution Get Moving!
- Basic Training Module 5 Solution Shoot It!
- Basic Training Module 7 Solution Make a Decision
- Basic Training Module 8 Solution Pass It!
- Basic Training Module 9 Solution Get a Clear Shot
- Basic Training Module 10 Solution Put It All Together
- Basic Training Module 12 Solution Up and Down
- Basic Training Module 13 Solution Pass Upfield

Strategy Training

- Strategy Training Module 2 Solution Find Your Shot
- Strategy Training Module 3 Solution Get Open
- Strategy Training Module 5 Solution Hustle
- Strategy Training Module 7 Solution Steal It!
- Strategy Training Module 8 Solution Tackle Time
- Strategy Training Module 10 Solution Pass to Striker
- Strategy Training Module 12 Solution Defend the Goal
- Strategy Training Module 13 Solution Stay and Defend

Answer Keys

Basic Training Module 4 Solution - Get Moving!



Basic Training Module 5 Solution - Shoot It!



Basic Training Module 7 Solution - Make a Decision



Basic Training Module 8 Solution - Pass It!



Basic Training Module 9 Solution - Get a Clear Shot

```
on turn

if can kick reach Nearest Teammate then

pass to Nearest Teammate

else 
move to Center
```

Basic Training Module 10 Solution - Put It All Together



Basic Training Module 12 Solution - Up and Down

```
on turn

if Ball is above Self then

move to direction Up

else if Ball is below Self then 

move to direction Down

else +

// Don't worry about adding code here for now
```

Basic Training Module 13 Solution - Pass Upfield

```
on turn

if I have the ball then

pass to Nearest Teammate

else if Ball is above Self then —

move to direction Up

else if Ball is below Self then —

move to direction Down

else +
```

Strategy Training Module 2 Solution - Find Your Shot

```
on turn

if I have the ball then

if can kick reach Opponent Goal then

kick towards Opponent Goal

else 

move to direction Up

else 
move to Ball
```

Strategy Training Module 3 Solution - Get Open



Strategy Training Module 5 Solution - Hustle

```
on turn

if I have the ball then

if can kick reach Opponent Goal then

kick towards Opponent Goal

else +

move to direction Up

else if Any Teammate has Ball then -

move to Open Position

else if can sprint then -

sprint to Ball

else +
```

Strategy Training Module 7 Solution - Steal It!



Strategy Training Module 8 Solution - Tackle Time

```
on turn

if I have the ball then

if can kick reach Nearest Teammate then

pass to Nearest Teammate

else 

move to Center

else 

if can tackle then

tackle

else 

move to Ball
```

Strategy Training Module 10 Solution - Pass to Striker

```
on turn

if I have the ball then

if can kick reach teammate 3 then

pass to teammate 3

else 
move to Center

else 
move to Ball
```

Strategy Training Module 12 Solution - Defend the Goal

```
on turn

if I have the ball then

pass to Nearest Teammate

else if distance from Self to Ball < 3 and can sprint then 
sprint to Ball

else if Ball is above Self then 
move to direction Up

else if Ball is below Self then 
move to direction Down

else 
### The pass to Nearest Teammate

then 
move to direction Up

else if Ball is below Self then 
move to direction Down

else 
### The pass to Nearest Teammate

### The pass to Nearest Teammate

### The pass to Nearest Teammate

else if distance from Self to Ball < 3 and can sprint then 
### The pass to Nearest Teammate

### The pass to Nearest Teammate

### Pass to Nearest Teammat
```

Strategy Training Module 13 Solution - Stay and Defend