e-Tech Racing's Inverter Firmware v0

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| C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/TASKS_1ms.h | |
| Header file for functions related to tasks executed every 1ms | 68 |
| C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/TASKS_20us.h | |
| Header file for functions related to tasks executed every 20us in each PWM timer interruption . | 70 |
| C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/CAN_e-Tech.c | |
| This file contains functions to handle CAN communication with the car | 72 |
| C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/CONTROL.c | |
| This file provides code for the control loop | 74 |
| C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/FSM.c | |
| This file provides code for the inverter Finite State Machine | 78 |
| C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/INVERTER.c | |
| This file provides code for the inverter struct | 79 |
| C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/main.c | |
| : Main program body | 83 |
| C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/MEASUREMENTS.c | |
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|---------------------------------------------------------------------------------|-----|
| This file provides functions for handling GPIOs | 113 |
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| This file provides functions for controlling PWM output | 115 |
| C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/REFERENCE.c | |
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| This file contains functions executed every 20us in each PWM timer interruption | 129 |

Chapter 3

Data Structure Documentation

3.1 Analog Struct Reference

Structure for ADC measurements in units.

#include <MEASUREMENTS.h>

Data Fields

- float ia
- float ib
- float ic
- float vDC

3.1.1 Detailed Description

Structure for ADC measurements in units.

3.1.2 Field Documentation

3.1.2.1 ia

float ia

Phase A current in A

3.1.2.2 ib

float ib

Phase B current in A

3.1.2.3 ic

float ic

Phase C current in A

3.1.2.4 vDC

float vDC

DC link voltage in V

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

 $\bullet \ \ C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/MEASUREMENTS.h$

3.2 Duties Struct Reference

Structure to hold PWM configuration parameters.

```
#include <PWM.h>
```

Data Fields

- float Da
- float Db
- float Dc

3.2.1 Detailed Description

Structure to hold PWM configuration parameters.

3.2.2 Field Documentation

3.2.2.1 Da

float Da

Duty cycle for channel 1

3.2.2.2 Db

float Db

Duty cycle for channel 2

3.2.2.3 Dc

float Dc

Duty cycle for channel 3

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

• C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/PWM.h

3.3 Encoder Struct Reference

Structure for encoder reading.

```
#include <MEASUREMENTS.h>
```

Data Fields

- uint16_t A
- uint16_t B
- uint16_t Z
- float we
- float theta_e
- float sinTheta_e
- float cosTheta_e
- uint8_t directionMeas

3.3.1 Detailed Description

Structure for encoder reading.

3.3.2 Field Documentation

3.3.2.1 A

uint16_t A

Encoder channel A value

3.3.2.2 B

uint16_t B

Encoder channel B value

3.3.2.3 cosTheta_e

float cosTheta_e

Electrical rotor position cosine

3.3.2.4 directionMeas

uint8_t directionMeas

Measured direction

3.3.2.5 sinTheta_e

float sinTheta_e

Electrical rotor position sine

3.3.2.6 theta_e

float theta_e

Electrical rotor position

3.3.2.7 we

float we

Electrical angular velocity

3.3.2.8 Z

uint16_t Z

Encoder channel Z value

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

• C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/MEASUREMENTS.h

3.4 Feedback Struct Reference

Structure for feedback values.

#include <MEASUREMENTS.h>

Data Fields

- float idMeas
- float iqMeas
- float torqueCalc
- float speedMeas

3.4.1 Detailed Description

Structure for feedback values.

3.4.2 Field Documentation

3.4.2.1 idMeas

float idMeas

Measured d-axis current in A

3.4.2.2 iqMeas

float iqMeas

Measured q-axis current in A

3.4.2.3 speedMeas

 ${\tt float speedMeas}$

Measured speed in RPM

3.4.2.4 torqueCalc

float torqueCalc

Calculated torque in N·m

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

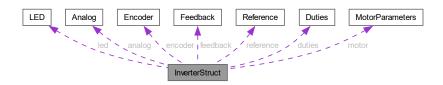
 $\bullet \ \ C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/MEASUREMENTS.h$

3.5 InverterStruct Struct Reference

Inverter structure.

#include <INVERTER.h>

Collaboration diagram for InverterStruct:



Data Fields

- LED * led
- GPIO_TypeDef * enable_port
- uint16_t enable_pin
- TIM_HandleTypeDef * htim
- ADC_HandleTypeDef * hadc
- · InverterState state
- · Analog analog
- Encoder encoder
- Feedback feedback
- Reference reference
- · Duties duties
- int8_t direction
- · float tempInverter
- float tempMotor
- MotorParameters * motor
- pi_struct idLoop
- pi_struct iqLoop
- float vsMax
- float vd
- float vq
- pi_struct speedLoop

3.5.1 Detailed Description

Inverter structure.

3.5.2 Field Documentation

3.5.2.1 analog

Analog analog

Structure for phase currents and DC voltage measurements

3.5.2.2 direction

int8_t direction

Motor direction: 1 CW, -1 CCW, 0 stopped

3.5.2.3 duties

Duties duties

Structure for duty cycles for phases A, B, and C

3.5.2.4 enable_pin

uint16_t enable_pin

Pin number for enabling/disabling the inverter

3.5.2.5 enable_port

GPIO_TypeDef* enable_port

Pointer to GPIO port for enabling/disabling the inverter

3.5.2.6 encoder

Encoder encoder

Structure for encoder input

3.5.2.7 feedback

Feedback feedback

Structure for measured currents and calculated mechanical torque and speed

3.5.2.8 hadc

ADC_HandleTypeDef* hadc

Handle of the ADC peripheral for current phase currents and DC voltage sensing

3.5.2.9 htim

TIM_HandleTypeDef* htim

Handle of the timer peripheral for PWM output

3.5.2.10 idLoop

pi_struct idLoop

PI controller for d-axis current

3.5.2.11 iqLoop

pi_struct iqLoop

PI controller for q-axis current

3.5.2.12 led

LED* led

Pointer to LED control structure

3.5.2.13 motor

MotorParameters* motor

Motor parameters struct

3.5.2.14 reference

Reference reference

Structure for referece currents and torque

3.5.2.15 speedLoop

pi_struct speedLoop

PI controller for motor speed

3.5.2.16 state

InverterState state

Current state of inverter operation

3.5.2.17 tempInverter

float tempInverter

Semiconductor temperature in degC

3.6 LED Struct Reference

3.5.2.18 tempMotor

float tempMotor

Motor temperature in degC

3.5.2.19 vd

float vd

d-axis voltage

3.5.2.20 vq

float vq

q-axis voltage

3.5.2.21 vsMax

float vsMax

Maximum output voltage, should be calculated as vDC / sqrt3 in volts

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

• C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/INVERTER.h

3.6 LED Struct Reference

LED structure.

```
#include <PCB_IO.h>
```

Data Fields

- GPIO_TypeDef * port
- uint16_t pin
- LEDMode mode

3.6.1 Detailed Description

LED structure.

3.6.2 Field Documentation

3.6.2.1 mode

LEDMode mode

Current LED mode

3.6.2.2 pin

uint16_t pin

Pin number for controlling the LED

3.6.2.3 port

```
GPIO_TypeDef* port
```

GPIO port for controlling the LED

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

• C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/PCB_IO.h

3.7 MotorParameters Struct Reference

Structure to hold motor parameters.

```
#include <MOTOR.h>
```

Data Fields

- float Ld
- float Lq
- float Rs
- float lambda
- uint8_t pp
- float J
- float b
- float torqueMax
- float dTorqueMax
- float speedMax_RPM
- float iMax
- float vDCMax

3.7.1 Detailed Description

Structure to hold motor parameters.

3.7.2 Field Documentation

3.7.2.1 b float b Viscous friction in N·m·s 3.7.2.2 dTorqueMax float dTorqueMax Maximum torque increment in N·m/s 3.7.2.3 iMax float iMax Maximum phase current (peak value, or RMS*sqrt2) 3.7.2.4 J float J Rotational inertia in N·m·s^2 3.7.2.5 lambda float lambda Magnet flux linkage measured V_pk_ph-n · s (phase-neutral peak voltage divided by electrical speed in rad/s) 3.7.2.6 Ld float Ld D-axis inductance in Henries 3.7.2.7 Lq float Lq

Generated by Doxygen

Q-axis inductance in Henries

3.7.2.8 pp

uint8_t pp

Pole pairs (total number of poles divided by 2)

3.7.2.9 Rs

float Rs

Stator resistance in Ohms

3.7.2.10 speedMax RPM

float speedMax_RPM

Maximum speed in RPM

3.7.2.11 torqueMax

float torqueMax

Maximum torque in N·m

3.7.2.12 vDCMax

float vDCMax

Maximum DC bus voltage in volts

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

• C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/MOTOR.h

3.8 Reference Struct Reference

Structure for reference values.

#include <REFERENCE.h>

Data Fields

- float idRef
- float iqRef
- float torqueRef

3.8.1 Detailed Description

Structure for reference values.

3.8.2 Field Documentation

3.8.2.1 idRef

float idRef

Reference d-axis current in A

3.8.2.2 iqRef

float iqRef

Reference q-axis current in A

3.8.2.3 torqueRef

float torqueRef

Reference torque in N·m

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

 $\bullet \ \ C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/REFERENCE.h$

Chapter 4

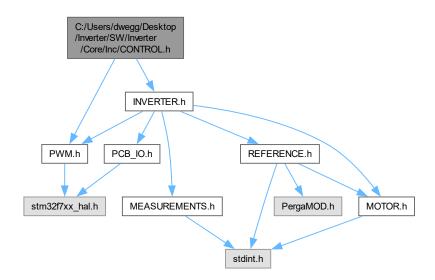
File Documentation

4.1 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/CONTROL.h File Reference

Header file for the control loop.

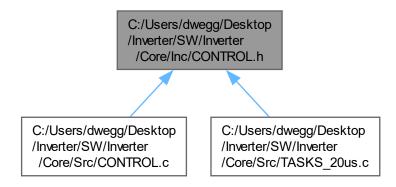
#include "PWM.h"
#include "INVERTER.h"

Include dependency graph for CONTROL.h:



20 File Documentation

This graph shows which files directly or indirectly include this file:



Functions

 void calc_current_reference (float we, float torqueRef, float vsRef, MotorParameters *motor, volatile float *idRef, volatile float *iqRef)

Calculates the current references based on electrical speed, torque reference, voltage reference, motor parameters, and updates the d-axis and q-axis current references. Just MTPA for now.

- void calc_current_loop (volatile InverterStruct *inv)
 - Calculates the id-iq loops.
- void saturate_voltage (volatile InverterStruct *inv)
 - Saturates PI output to not surpass DC voltage.
- void calc_duties (float vd, float vp, float vDC, float sinTheta_e, float cosTheta_e, volatile Duties *duties)
 function.

4.1.1 Detailed Description

Header file for the control loop.

Attention

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4.1.2 Function Documentation

4.1.2.1 calc_current_loop()

Calculates the id-iq loops.

Parameters

```
inv Pointer to the inverter structure.
```

Here is the caller graph for this function:



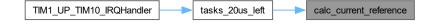
4.1.2.2 calc_current_reference()

Calculates the current references based on electrical speed, torque reference, voltage reference, motor parameters, and updates the d-axis and q-axis current references. Just MTPA for now.

Parameters

| in | we | Electrical speed in radians per second. |
|-----|-----------|--------------------------------------------|
| in | torqueRef | Torque reference. |
| in | vsRef | Voltage reference. |
| in | motor | Pointer to the motor parameters structure. |
| out | idRef | Pointer to the d-axis current reference. |
| out | iqRef | Pointer to the q-axis current reference. |

Here is the caller graph for this function:



4.1.2.3 calc_duties()

22 File Documentation

```
float vq,
float vDC,
float sinTheta_e,
float cosTheta_e,
volatile Duties * duties )
```

function.

This function calculates the inverse Park transform and the duty cycles using SVPWM

Parameters

| in | vd | Voltage in the d-axis. |
|-----|-----------|----------------------------------|
| in | vq | Voltage in the q-axis. |
| in | vDC | DC voltage. |
| in | sinTheta⊷ | Electrical angle sine (-11) |
| | _e | |
| in | cosTheta⇔ | Electrical angle cosine (-11) |
| | _e | |
| out | duties | Pointer to the duties structure. |

Here is the caller graph for this function:



4.1.2.4 saturate_voltage()

Saturates PI output to not surpass DC voltage.

Parameters

| inv | Pointer to the inverter structure. |
|-----|------------------------------------|

Here is the caller graph for this function:



4.2 CONTROL.h 23

4.2 CONTROL.h

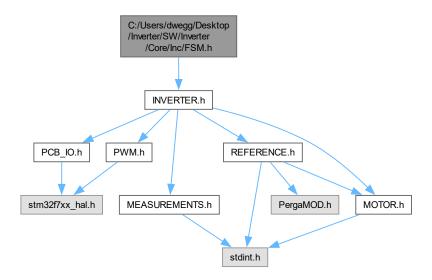
Go to the documentation of this file.

```
00001 /* USER CODE BEGIN Header */
00018 /* USER CODE END Header */
00019
00020 #ifndef CONTROL_H
00021 #define CONTROL_H
00022
00023 #include "PWM.h" // duties struct
00024 #include "INVERTER.h" // TS & Inverter struct
00025
00037 void calc_current_reference(float we, float torqueRef, float vsRef, MotorParameters *motor, volatile
      float * idRef, volatile float * iqRef);
00038
00044 void calc_current_loop(volatile InverterStruct *inv);
00045
00051 void saturate_voltage(volatile InverterStruct *inv);
00052
00065 void calc_duties(float vd, float vq, float vDC, float sinTheta_e, float cosTheta_e, volatile Duties
00066
00067 #endif /* CONTROL H */
```

4.3 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/FSM.h File Reference

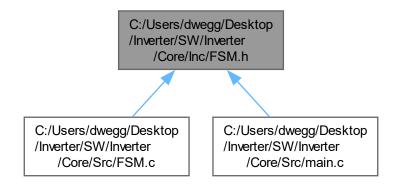
Header for the inverter Finite State Machine.

#include "INVERTER.h"
Include dependency graph for FSM.h:



24 File Documentation

This graph shows which files directly or indirectly include this file:



Functions

• void eval_inv_FSM (volatile InverterStruct *inv)

Run the Finite State Machine (FSM) for inverter operation control.

4.3.1 Detailed Description

Header for the inverter Finite State Machine.

Attention

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4.3.2 Function Documentation

4.3.2.1 eval_inv_FSM()

Run the Finite State Machine (FSM) for inverter operation control.

4.4 FSM.h 25

Parameters

inv Pointer to the inverter structure.

Run the Finite State Machine (FSM) for inverter operation control.

This function executes the finite state machine to control the inverter based on its current state.

Parameters

```
inv Pointer to the inverter structure.
```

Here is the caller graph for this function:



4.4 FSM.h

Go to the documentation of this file.

```
00001 /* USER CODE BEGIN Header */
00018 /* USER CODE END Header */
00019
00020 #ifndef FSM_H
00021 #define FSM_H
00022 #include "INVERTER.h" // inverter struct
00023
00024
00030 void eval_inv_FSM(volatile InverterStruct *inv);
00031
00032 #endif /* FSM_H */
```

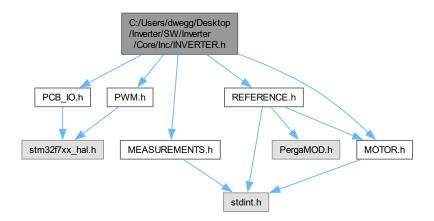
4.5 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/INVERTER.h File Reference

Header file for the inverter struct and extern variables.

```
#include "PCB_IO.h"
#include "MEASUREMENTS.h"
#include "REFERENCE.h"
#include "MOTOR.h"
```

```
#include "PWM.h"
```

Include dependency graph for INVERTER.h:



This graph shows which files directly or indirectly include this file:



Data Structures

• struct InverterStruct

Inverter structure.

Macros

- #define TS 0.000025
- #define DT 0.00000015

Enumerations

enum InverterState { INV_STATE_IDLE , INV_STATE_STARTUP , INV_STATE_RUNNING , INV_STATE_FAULT }

Enumeration of inverter operation states.

Functions

void initialize_inverter (volatile InverterStruct *inv, LED *led, GPIO_TypeDef *enable_port, uint16_t enable
 _pin, TIM_HandleTypeDef *htim, ADC_HandleTypeDef *hadc, MotorParameters *motor)

Initialize the inverter.

void init_control_loops (volatile InverterStruct *inv, MotorParameters *motor)

Initializes the id-iq current control PI controllers.

void enable_control_loops (volatile InverterStruct *inv)

Enables the PI controllers.

void disable_control_loops (volatile InverterStruct *inv)

Disables the PI controllers.

Variables

· volatile InverterStruct inverter left

Left inverter structure.

· volatile InverterStruct inverter_right

Right inverter structure.

4.5.1 Detailed Description

Header file for the inverter struct and extern variables.

Attention

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4.5.2 Macro Definition Documentation

4.5.2.1 DT

#define DT 0.0000015

Dead time in seconds (150 ns), time in which both top and bottom transistors are open

4.5.2.2 TS

#define TS 0.000025

Switching time in seconds (25 us), inverse of the switching frequency of 40 kHz

4.5.3 Enumeration Type Documentation

4.5.3.1 InverterState

enum InverterState

Enumeration of inverter operation states.

Enumerator

| INV_STATE_IDLE | Inverter idle state |
|-------------------|------------------------|
| INV_STATE_STARTUP | Inverter startup state |
| INV_STATE_RUNNING | Inverter running state |
| INV_STATE_FAULT | Inverter fault state |

4.5.4 Function Documentation

4.5.4.1 disable_control_loops()

Disables the PI controllers.

Parameters

inv Pointer to the inverter structure.

4.5.4.2 enable_control_loops()

Enables the PI controllers.

Parameters

inv Pointer to the inverter structure.

4.5.4.3 init_control_loops()

Initializes the id-iq current control PI controllers.

Parameters

inv Pointer to the inverter structure.

Initializes the id-iq current control PI controllers.

Parameters

```
inv Pointer to the inverter structure.
```

Here is the caller graph for this function:



4.5.4.4 initialize_inverter()

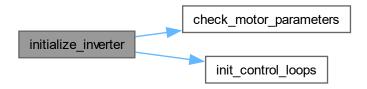
Initialize the inverter.

This function initializes the inverter structure with the specified LED, GPIO port, and pin.

Parameters

| out | inv | Pointer to the inverter structure. |
|-----|-------------|----------------------------------------------------------------------|
| in | led | Pointer to the LED structure. |
| in | enable_port | Pointer to the GPIO port for enabling/disabling the inverter. |
| in | enable_pin | Pin number for enabling/disabling the inverter. |
| in | htim | Timer peripheral for the PWM output. |
| in | hadc | ADC peripheral for the current phase current and DC voltage sensing. |
| in | motor | MotorParameters struct. |

Here is the call graph for this function:



Here is the caller graph for this function:



4.5.5 Variable Documentation

4.5.5.1 inverter_left

volatile InverterStruct inverter_left [extern]

Left inverter structure.

External declaration of the left inverter structure

External declaration of the left inverter structure.

4.5.5.2 inverter_right

volatile InverterStruct inverter_right [extern]

Right inverter structure.

External declaration of the right inverter structure

External declaration of the right inverter structure.

4.6 INVERTER.h 31

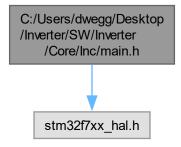
4.6 INVERTER.h

```
Go to the documentation of this file.
00001 /* USER CODE BEGIN Header */
00018 /* USER CODE END Header */
00019
00020 #ifndef INVERTER_H
00021 #define INVERTER_H
00022
00023 #include "PCB_IO.h" // peripheral types
00024 #include "MEASUREMENTS.h" // a few structs
00025 #include "REFERENCE.h" // reference struct
00026 #include "MOTOR.h" // motor struct
00027 #include "PWM.h" // duties struct
00028
00029
00030
00031 #define TS 0.000025
00032 #define DT 0.00000015
00040 typedef enum {
        INV_STATE_IDLE,
00041
00042
          INV_STATE_STARTUP,
         INV_STATE_RUNNING,
00043
00044
          INV STATE FAULT
00045 } InverterState;
00050 typedef struct {
        LED *led;
00051
00052
          GPIO_TypeDef *enable_port;
00053
          uint16_t enable_pin;
        TIM_HandleTypeDef *htim;
ADC_HandleTypeDef *hadc;
00054
00055
00056
          InverterState state;
00057
          Analog analog;
00058
          Encoder encoder;
          Feedback feedback;
00059
00060
          Reference reference:
00061
          Duties duties;
00062
          int8_t direction;
00063
          float tempInverter;
00064
          float tempMotor;
00065
          MotorParameters *motor:
00066
          pi_struct idLoop;
          pi_struct iqLoop;
00067
00068
          float vsMax;
00069
          float vd;
00070
          float vq;
00071
          pi_struct speedLoop;
00073 } InverterStruct;
00075 extern volatile InverterStruct inverter_left;
00076 extern volatile InverterStruct inverter_right;
00091 void initialize_inverter(volatile InverterStruct *inv, LED *led, GPIO_TypeDef *enable_port, uint16_t
      enable_pin, TIM_HandleTypeDef *htim, ADC_HandleTypeDef *hadc, MotorParameters *motor);
00092
00093
00099 void init_control_loops(volatile InverterStruct *inv, MotorParameters *motor);
00106 void enable_control_loops(volatile InverterStruct *inv);
00107
00113 void disable_control_loops(volatile InverterStruct *inv);
00114
00115 #endif /* INVERTER_H */
```

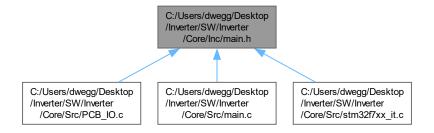
4.7 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/main.h File Reference

: Header for main.c file. This file contains the common defines of the application.

#include "stm32f7xx_hal.h"
Include dependency graph for main.h:



This graph shows which files directly or indirectly include this file:



Macros

- #define Tinv_L_Pin GPIO_PIN_0
- #define Tinv_L_GPIO_Port GPIOC
- #define Tinv_R_Pin GPIO_PIN_1
- #define Tinv_R_GPIO_Port GPIOC
- #define Tmot_L_Pin GPIO_PIN_2
- #define Tmot_L_GPIO_Port GPIOC
- #define Tmot_R_Pin GPIO_PIN_3
- #define Tmot_R_GPIO_Port GPIOC
- #define ia L Pin GPIO PIN 0
- #define ia_L_GPIO_Port GPIOA
- #define ib_L_Pin GPIO_PIN_1
- #define ib_L_GPIO_Port GPIOA
- #define ic_L_Pin GPIO_PIN_2
- #define ic_L_GPIO_Port GPIOA
- #define VDC_L_Pin GPIO_PIN_3
- #define VDC L GPIO Port GPIOA
- #define DAC_Pin GPIO_PIN_4

- #define DAC GPIO Port GPIOA
- #define PWM1_R_Pin GPIO_PIN_5
- #define PWM1_R_GPIO_Port GPIOA
- #define ia R Pin GPIO PIN 6
- #define ia R GPIO Port GPIOA
- #define ib_R_Pin GPIO_PIN_7
- #define ib R GPIO Port GPIOA
- #define SC_det_Pin GPIO_PIN_4
- #define SC_det_GPIO_Port GPIOC
- #define ic R Pin GPIO PIN 0
- #define ic_R_GPIO_Port GPIOB
- #define VDC_R_Pin GPIO_PIN_1
- #define VDC_R_GPIO_Port GPIOB
- #define ENABLE R Pin GPIO PIN 2
- #define ENABLE_R_GPIO_Port GPIOB
- #define ENABLE L Pin GPIO PIN 7
- #define ENABLE L GPIO Port GPIOE
- #define PWM1 L Pin GPIO PIN 8
- #define PWM1_L_GPIO_Port GPIOE
- #define PWM2_L_Pin GPIO_PIN_9
- #define PWM2_L_GPIO_Port GPIOE
- #define PWM3_L_Pin GPIO_PIN_10
- #define PWM3_L_GPIO_Port GPIOE
- #define PWM4_L_Pin GPIO_PIN_11
- #define PWM4_L_GPIO_Port GPIOE
- #define PWM5_L_Pin GPIO_PIN_12
- #define PWM5_L_GPIO_Port GPIOE
- #define PWM6_L_Pin GPIO_PIN_13
- #define PWM6_L_GPIO_Port GPIOE
- #define WRN_L_Pin GPIO_PIN_14
- #define WRN_L_GPIO_Port GPIOE
- #define WRN_R_Pin GPIO_PIN_15
- #define WRN_R_GPIO_Port GPIOE
- #define B_R_Pin GPIO_PIN_10
- #define B_R_GPIO_Port GPIOB
- #define Z_R_Pin GPIO_PIN_11
- #define Z_R_GPIO_Port GPIOB
- #define PWM3_R_Pin GPIO_PIN_14
- #define PWM3_R_GPIO_Port GPIOB
- #define PWM5 R Pin GPIO PIN 15
- #define PWM5 R GPIO Port GPIOB
- #define A_L_Pin GPIO_PIN_12
- #define A_L_GPIO_Port GPIOD

 #define B_L_Bin OPIO_PIN_444
- #define B_L_Pin GPIO_PIN_14
- #define B_L_GPIO_Port GPIOD
- #define Z_L_Pin GPIO_PIN_15
- #define Z_L_GPIO_Port GPIOD
- #define PWM2_R_Pin GPIO_PIN_6
- #define PWM2_R_GPIO_Port GPIOC
- #define PWM4_R_Pin GPIO_PIN_7#define PWM4_R_GPIO_Port GPIOC
- #define PWM6 R Pin GPIO PIN 8
- #define PWM6 R GPIO Port GPIOC
- #define TRIP R Pin GPIO PIN 9
- #define TRIP_R_GPIO_Port GPIOC

- #define TRIP_L_Pin GPIO_PIN_8
- #define TRIP_L_GPIO_Port GPIOA
- #define A R Pin GPIO PIN 15
- #define A_R_GPIO_Port GPIOA
- #define DIR_Pin GPIO_PIN_3
- #define DIR_GPIO_Port GPIOD
- #define LED_LEFT_Pin GPIO_PIN_4
- #define LED_LEFT_GPIO_Port GPIOD
- #define LED RIGHT Pin GPIO PIN 5
- #define LED RIGHT GPIO Port GPIOD
- #define LED ERR Pin GPIO PIN 6
- #define LED_ERR_GPIO_Port GPIOD

Functions

void Error_Handler (void)

This function is executed in case of error occurrence.

4.7.1 Detailed Description

: Header for main.c file. This file contains the common defines of the application.

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4.7.2 Macro Definition Documentation

4.7.2.1 A_L_GPIO_Port

#define A_L_GPIO_Port GPIOD

4.7.2.2 A_L_Pin

#define A_L_Pin GPIO_PIN_12

4.7.2.3 A_R_GPIO_Port

#define A_R_GPIO_Port GPIOA

4.7.2.4 A_R_Pin

#define A_R_Pin GPIO_PIN_15

4.7.2.5 B_L_GPIO_Port

#define B_L_GPIO_Port GPIOD

4.7.2.6 B_L_Pin

#define B_L_Pin GPIO_PIN_14

4.7.2.7 B_R_GPIO_Port

#define B_R_GPIO_Port GPIOB

4.7.2.8 B_R_Pin

#define B_R_Pin GPIO_PIN_10

4.7.2.9 DAC_GPIO_Port

#define DAC_GPIO_Port GPIOA

4.7.2.10 DAC_Pin

#define DAC_Pin GPIO_PIN_4

4.7.2.11 DIR_GPIO_Port

#define DIR_GPIO_Port GPIOD

4.7.2.12 DIR_Pin

#define DIR_Pin GPIO_PIN_3

4.7.2.13 ENABLE_L_GPIO_Port

#define ENABLE_L_GPIO_Port GPIOE

4.7.2.14 ENABLE_L_Pin

#define ENABLE_L_Pin GPIO_PIN_7

4.7.2.15 ENABLE_R_GPIO_Port

#define ENABLE_R_GPIO_Port GPIOB

4.7.2.16 ENABLE_R_Pin

#define ENABLE_R_Pin GPIO_PIN_2

4.7.2.17 ia_L_GPIO_Port

#define ia_L_GPIO_Port GPIOA

4.7.2.18 ia_L_Pin

#define ia_L_Pin GPIO_PIN_0

4.7.2.19 ia_R_GPIO_Port

#define ia_R_GPIO_Port GPIOA

4.7.2.20 ia_R_Pin

#define ia_R_Pin GPIO_PIN_6

4.7.2.21 ib_L_GPIO_Port

 $\verb|#define ib_L_GPIO_Port GPIOA|\\$

4.7.2.22 ib_L_Pin

#define ib_L_Pin GPIO_PIN_1

4.7.2.23 ib_R_GPIO_Port

#define ib_R_GPIO_Port GPIOA

4.7.2.24 ib_R_Pin

#define ib_R_Pin GPIO_PIN_7

4.7.2.25 ic_L_GPIO_Port

#define ic_L_GPIO_Port GPIOA

4.7.2.26 ic_L_Pin

#define ic_L_Pin GPIO_PIN_2

4.7.2.27 ic_R_GPIO_Port

#define ic_R_GPIO_Port GPIOB

4.7.2.28 ic_R_Pin

#define ic_R_Pin GPIO_PIN_0

4.7.2.29 LED_ERR_GPIO_Port

#define LED_ERR_GPIO_Port GPIOD

4.7.2.30 LED_ERR_Pin

#define LED_ERR_Pin GPIO_PIN_6

4.7.2.31 LED_LEFT_GPIO_Port

#define LED_LEFT_GPIO_Port GPIOD

4.7.2.32 LED_LEFT_Pin

#define LED_LEFT_Pin GPIO_PIN_4

4.7.2.33 LED_RIGHT_GPIO_Port

#define LED_RIGHT_GPIO_Port GPIOD

4.7.2.34 LED_RIGHT_Pin

#define LED_RIGHT_Pin GPIO_PIN_5

4.7.2.35 PWM1_L_GPIO_Port

#define PWM1_L_GPIO_Port GPIOE

4.7.2.36 PWM1_L_Pin

 $\verb|#define PWM1_L_Pin GPIO_PIN_8|$

4.7.2.37 PWM1_R_GPIO_Port

#define PWM1_R_GPIO_Port GPIOA

4.7.2.38 PWM1_R_Pin

#define PWM1_R_Pin GPIO_PIN_5

4.7.2.39 PWM2_L_GPIO_Port

#define PWM2_L_GPIO_Port GPIOE

4.7.2.40 PWM2_L_Pin

#define PWM2_L_Pin GPIO_PIN_9

4.7.2.41 PWM2_R_GPIO_Port

 $\verb|#define PWM2_R_GPIO_Port GPIOC|$

4.7.2.42 PWM2_R_Pin

#define PWM2_R_Pin GPIO_PIN_6

4.7.2.43 PWM3_L_GPIO_Port

#define PWM3_L_GPIO_Port GPIOE

4.7.2.44 PWM3_L_Pin

#define PWM3_L_Pin GPIO_PIN_10

4.7.2.45 PWM3_R_GPIO_Port

#define PWM3_R_GPIO_Port GPIOB

4.7.2.46 PWM3_R_Pin

#define PWM3_R_Pin GPIO_PIN_14

4.7.2.47 PWM4_L_GPIO_Port

#define PWM4_L_GPIO_Port GPIOE

4.7.2.48 PWM4_L_Pin

#define PWM4_L_Pin GPIO_PIN_11

4.7.2.49 PWM4_R_GPIO_Port

#define PWM4_R_GPIO_Port GPIOC

4.7.2.50 PWM4_R_Pin

#define PWM4_R_Pin GPIO_PIN_7

4.7.2.51 PWM5_L_GPIO_Port

 $\verb|#define PWM5_L_GPIO_Port GPIOE|\\$

4.7.2.52 PWM5_L_Pin

#define PWM5_L_Pin GPIO_PIN_12

4.7.2.53 PWM5_R_GPIO_Port

#define PWM5_R_GPIO_Port GPIOB

4.7.2.54 PWM5_R_Pin

#define PWM5_R_Pin GPIO_PIN_15

4.7.2.55 PWM6_L_GPIO_Port

#define PWM6_L_GPIO_Port GPIOE

4.7.2.56 PWM6_L_Pin

 $\#define PWM6_L_Pin GPIO_PIN_13$

4.7.2.57 PWM6_R_GPIO_Port

#define PWM6_R_GPIO_Port GPIOC

4.7.2.58 PWM6_R_Pin

#define PWM6_R_Pin GPIO_PIN_8

4.7.2.59 SC_det_GPIO_Port

#define SC_det_GPIO_Port GPIOC

4.7.2.60 SC_det_Pin

#define SC_det_Pin GPIO_PIN_4

4.7.2.61 Tinv_L_GPIO_Port

#define Tinv_L_GPIO_Port GPIOC

4.7.2.62 Tinv_L_Pin

#define Tinv_L_Pin GPIO_PIN_0

4.7.2.63 Tinv_R_GPIO_Port

#define Tinv_R_GPIO_Port GPIOC

4.7.2.64 Tinv_R_Pin

#define Tinv_R_Pin GPIO_PIN_1

4.7.2.65 Tmot_L_GPIO_Port

#define Tmot_L_GPIO_Port GPIOC

4.7.2.66 Tmot_L_Pin

#define Tmot_L_Pin GPIO_PIN_2

4.7.2.67 Tmot_R_GPIO_Port

#define Tmot_R_GPIO_Port GPIOC

4.7.2.68 Tmot_R_Pin

#define Tmot_R_Pin GPIO_PIN_3

4.7.2.69 TRIP_L_GPIO_Port

#define TRIP_L_GPIO_Port GPIOA

4.7.2.70 TRIP_L_Pin

#define TRIP_L_Pin GPIO_PIN_8

4.7.2.71 TRIP_R_GPIO_Port

#define TRIP_R_GPIO_Port GPIOC

4.7.2.72 TRIP_R_Pin

#define TRIP_R_Pin GPIO_PIN_9

4.7.2.73 VDC_L_GPIO_Port

#define VDC_L_GPIO_Port GPIOA

4.7.2.74 VDC_L_Pin

#define VDC_L_Pin GPIO_PIN_3

4.7.2.75 VDC_R_GPIO_Port

#define VDC_R_GPIO_Port GPIOB

4.7.2.76 VDC_R_Pin

#define VDC_R_Pin GPIO_PIN_1

4.7.2.77 WRN_L_GPIO_Port

#define WRN_L_GPIO_Port GPIOE

4.7.2.78 WRN_L_Pin

#define WRN_L_Pin GPIO_PIN_14

4.7.2.79 WRN_R_GPIO_Port

#define WRN_R_GPIO_Port GPIOE

4.7.2.80 WRN_R_Pin

#define WRN_R_Pin GPIO_PIN_15

4.7.2.81 Z_L_GPIO_Port

 $\verb|#define Z_L_GPIO_Port GPIOD|\\$

4.7.2.82 Z_L_Pin

#define Z_L_Pin GPIO_PIN_15

4.7.2.83 Z_R_GPIO_Port

#define Z_R_GPIO_Port GPIOB

4.7.2.84 Z_R_Pin

#define Z_R_Pin GPIO_PIN_11

4.7.3 Function Documentation

4.7.3.1 Error_Handler()

```
void Error_Handler (
     void )
```

This function is executed in case of error occurrence.

4.8 main.h 43

Return values

None

Here is the caller graph for this function:



4.8 main.h

00020

Go to the documentation of this file.

00001 /* USER CODE BEGIN Header */

00019 /* USER CODE END Header */

```
00021 /* Define to prevent recursive inclusion -----*/
00022 #ifndef __MAIN_H
00023 #define ___MAIN_H
00024
00025 #ifdef __cplusplus
00026 extern "C" {
00027 #endif
00028
00029 /* Includes -----
00030 #include "stm32f7xx_hal.h"
00031
00032 /* Private includes --
00033 /* USER CODE BEGIN Includes */
00034
00035 /* USER CODE END Includes */
00036
00037 /* Exported types -----
00038 /* USER CODE BEGIN ET */
00039
00040 /* USER CODE END ET */
00041
00042 /* Exported constants -----*/
00043 /* USER CODE BEGIN EC */
00044
00045 /* USER CODE END EC */
00047 /* Exported macro -
00048 /* USER CODE BEGIN EM */
00049
00050 /* USER CODE END EM */
00051
00052 /* Exported functions prototypes -----
00053 void Error_Handler(void);
00054
00055 /* USER CODE BEGIN EFP */
00056
```

00058

00057 /* USER CODE END EFP */

00060 #define Tinv_L_Pin GPIO_PIN_0
00061 #define Tinv_L_GPIO_Port GPIOC
00062 #define Tinv_R_Pin GPIO_PIN_1
00063 #define Tinv_R_GPIO_Port GPIOC
00064 #define Tmot_L_Pin GPIO_PIN_2
00065 #define Tmot_L_GPIO_Port GPIOC
00066 #define Tmot_R_GPIO_PORT GPIOC
00068 #define Tmot_R_GPIO_PORT GPIOC
00068 #define ia_L_Pin GPIO_PIN_0
00069 #define ia_L_GPIO_PORT GPIOA
00070 #define ib_L_Pin GPIO_PIN_1

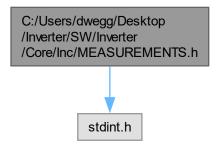
00059 /* Private defines

```
00071 #define ib_L_GPIO_Port GPIOA
00072 #define ic_L_Pin GPIO_PIN_2
00073 #define ic_L_GPIO_Port GPIOA
00074 #define VDC_L_Pin GPIO_PIN_3
00075 #define VDC_L_GPIO_Port GPIOA
00076 #define DAC_Pin GPIO_PIN_4
00077 #define DAC_GPIO_Port GPIOA
00078 #define PWM1_R_Pin GPIO_PIN_5
00079 #define PWM1_R_GPIO_Port GPIOA
00080 #define ia_R_Pin GPIO_PIN_6
00081 #define ia_R_GPIO_Port GPIOA
00082 #define ib_R_Pin GPIO_PIN_7
00083 #define ib_R_GPIO_Port GPIOA
00084 #define SC_det_Pin GPIO_PIN_4
00085 #define SC_det_GPIO_Port GPIOC
00086 #define ic_R_Pin GPIO_PIN_0
00087 #define ic_R_GPIO_Port GPIOB
00088 #define VDC_R_Pin GPIO_PIN_1
00089 #define VDC_R_GPIO_Port GPIOB
00090 #define ENABLE_R_Pin GPIO_PIN_2
00091 #define ENABLE_R_GPIO_Port GPIOB
00092 #define ENABLE_L_Pin GPIO_PIN_7
00093 #define ENABLE_L_GPIO_Port GPIOE
00094 #define PWM1_L_Pin GPIO_PIN_8
00095 #define PWM1_L_GPIO_Port GPIOE
00096 #define PWM2_L_Pin GPIO_PIN_9
00097 #define PWM2_L_GPIO_Port GPIOE
00098 #define PWM3_L_Pin GPIO_PIN_10
00099 #define PWM3_L_GPIO_Port GPIOE
00100 #define PWM4_L_Pin GPIO_PIN_11
00101 #define PWM4_L_GPIO_Port GPIOE
00102 #define PWM5_L_Pin GPIO_PIN_12
00103 #define PWM5_L_GPIO_Port GPIOE
00104 #define PWM6_L_Pin GPIO_PIN_13
00105 #define PWM6_L_GPIO_Port GPIOE
00106 #define WRN_L_Pin GPIO_PIN_14
00107 #define WRN_L_GPIO_Port GPIOE
00108 #define WRN_R_Pin GPIO_PIN_15
00109 #define WRN_R_GPIO_Port GPIOE
00110 #define B_R_Pin GPIO_PIN_10
00111 #define B_R_GPIO_Port GPIOB
00112 #define Z_R_Pin GPIO_PIN_11
00113 #define Z_R_GPIO_Port GPIOB
00114 #define PWM3_R_Pin GPIO_PIN_14
00115 #define PWM3_R_GPIO_Port GPIOB
00116 #define PWM5_R_Pin GPIO_PIN_15
00117 #define PWM5_R_GPIO_Port GPIOB
00118 #define A_L_Pin GPIO_PIN_12
00119 #define A_L_GPIO_Port GPIOD
00120 #define B_L_Pin GPIO_PIN_14
00121 #define B_L_GPIO_Port GPIOD
00122 #define Z_L_Pin GPIO_PIN_15
00123 #define Z_L_GPIO_Port GPIOD
00124 #define PWM2_R_Pin GPIO_PIN_6
00125 #define PWM2_R_GPIO_Port GPIOC
00126 #define PWM4_R_Pin GPIO_PIN_7
00127 #define PWM4_R_GPIO_Port GPIOC
00128 #define PWM6_R_Pin GPIO_PIN_8
00129 #define PWM6_R_GPIO_Port GPIOC
00130 #define TRIP_R_Pin GPIO_PIN_9
00131 #define TRIP_R_GPIO_Port GPIOC
00132 #define TRIP_L_Pin GPIO_PIN_8
00133 #define TRIP_L_GPIO_Port GPIOA
00134 #define A_R_Pin GPIO_PIN_15
00135 #define A_R_GPIO_Port GPIOA
00136 #define DIR_Pin GPIO_PIN_3
00137 #define DIR_GPIO_Port GPIOD
00138 #define LED_LEFT_Pin GPIO_PIN_4
00139 #define LED_LEFT_GPIO_Port GPIOD
00140 #define LED_RIGHT_Pin GPIO_PIN_5
00141 #define LED_RIGHT_GPIO_Port GPIOD
00142 #define LED_ERR_Pin GPIO_PIN_6
00143 #define LED_ERR_GPIO_Port GPIOD
00144
00145 /* USER CODE BEGIN Private defines */
00146
00147 /* USER CODE END Private defines */
00148
00149 #ifdef __cplusplus
00150 }
00151 #endif
00152
00153 #endif /* __MAIN_H */
```

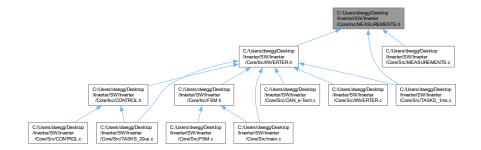
4.9 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/ MEASUREMENTS.h File Reference

Header file for handling measurements.

#include <stdint.h>
Include dependency graph for MEASUREMENTS.h:



This graph shows which files directly or indirectly include this file:



Data Structures

struct Encoder

Structure for encoder reading.

struct Analog

Structure for ADC measurements in units.

struct Feedback

Structure for feedback values.

Macros

- #define CURRENT_SLOPE 54.4217687f
- #define CURRENT_OFFSET 1.70068027211f
- #define VOLTAGE_SLOPE 263.435f
- #define VOLTAGE_OFFSET 0.02083f

Functions

 uint8_t get_currents_voltage (volatile uint32_t ADC_raw[], volatile Analog *analog, volatile Feedback *feedback, float sinTheta_e, float cosTheta_e)

Get electrical ADC measurements.

float get linear (uint32 t bits, float slope, float offset)

Convert ADC reading to physical measurement with linear response.

• void get_idiq (float ia, float ib, float ic, float sinTheta_e, float cosTheta_e, float *idMeas, float *iqMeas)

Computes d-q currents from current measurements and electrical angle.

• float get_temperature (uint32_t bits, const float tempLUT[])

Retrieves temperature from a lookup table based on ADC bits.

Variables

- const float tempInverterLUT []
- const float tempMotorLUT []
- volatile uint32_t rawADC_left [4]

Raw ADC data for the left inverter.

volatile uint32_t rawADC_right [4]

Raw ADC data for the right inverter.

volatile uint32_t rawADC_temp [4]

Raw ADC data for the temperatures.

4.9.1 Detailed Description

Header file for handling measurements.

Attention

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4.9.2 Macro Definition Documentation

4.9.2.1 CURRENT_OFFSET

```
#define CURRENT_OFFSET 1.70068027211f
[V] (10/(4.7+10))* 2.5 V
```

4.9.2.2 CURRENT_SLOPE

```
#define CURRENT_SLOPE 54.4217687f

[A/V] (10/(4.7+10)) * (1/(12.5 mV/A))
```

4.9.2.3 VOLTAGE_OFFSET

```
#define VOLTAGE_OFFSET 0.02083f
[V] (100/(4700+100) * 5 V
```

4.9.2.4 VOLTAGE_SLOPE

```
#define VOLTAGE_SLOPE 263.435f
[V/V] 1/(1/3 * 0.011388) V
```

4.9.3 Function Documentation

4.9.3.1 get_currents_voltage()

Get electrical ADC measurements.

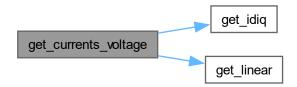
Parameters

| | in | ADC_raw | Pointer to the raw ADC values array. |
|---|-----|-----------|----------------------------------------------------|
| ſ | out | analog | Pointer to the ADC struct to store the results. |
| | out | feedback | Pointer to the Feedback struct to store id and iq. |
| ľ | in | sinTheta⊷ | Electrical angle sine (-11) |
| | | _e | |
| Ī | in | cosTheta⇔ | Electrical angle cosine (-11) |
| | | _e | |

Return values

```
OK 0 if an error occurred, 1 if successful.
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.9.3.2 get_idiq()

Computes d-q currents from current measurements and electrical angle.

This function computes the d-q currents from phase currents (ABC), theta_e, and stores the results in the provided pointers.

Parameters

| in | ia | Phase A current in A. |
|-----|-----------|--------------------------------------|
| in | ib | Phase B current in A. |
| in | ic | Phase C current in A. |
| in | sinTheta⊷ | Electrical angle sine (-11) |
| | _e | |
| in | cosTheta⊷ | Electrical angle cosine (-11) |
| | _e | |
| out | idMeas | Pointer to store the D-axis current. |
| out | iqMeas | Pointer to store the Q-axis current. |

Here is the caller graph for this function:



4.9.3.3 get_linear()

Convert ADC reading to physical measurement with linear response.

Parameters

| in | bits | The ADC reading. |
|----|--------|-----------------------------|
| in | slope | The slope (volts per unit). |
| in | offset | The offset (volts at zero). |

Return values

| measurement | The physical measurement. |
|-------------|---------------------------|
|-------------|---------------------------|

Parameters

| in | bits | The ADC reading. |
|----|--------|-----------------------------|
| in | slope | The slope (units per volt). |
| in | offset | The offset (volts at zero). |

Return values

| measurement | The physical measurement. |
|-------------|---------------------------|
|-------------|---------------------------|

Here is the caller graph for this function:



4.9.3.4 get_temperature()

Retrieves temperature from a lookup table based on ADC bits.

This function retrieves temperature from a lookup table based on the ADC bits. The lookup table (LUT) must have a value for each possible ADC bit combination.

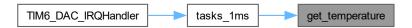
Parameters

| in | bits | ADC reading converted to bits. |
|----|---------|---------------------------------------------|
| in | tempLUT | Lookup table containing temperature values. |

Returns

Temperature corresponding to the provided ADC bits.

Here is the caller graph for this function:



4.9.4 Variable Documentation

4.9.4.1 rawADC_left

```
volatile uint32_t rawADC_left[4] [extern]
```

Raw ADC data for the left inverter.

External declaration of raw ADC data for the left inverter

External declaration of raw ADC data for the left inverter.

4.9.4.2 rawADC_right

```
volatile uint32_t rawADC_right[4] [extern]
```

Raw ADC data for the right inverter.

External declaration of raw ADC data for the right inverter

External declaration of raw ADC data for the right inverter.

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4.9.4.3 rawADC_temp

```
volatile uint32_t rawADC_temp[4] [extern]
```

Raw ADC data for the temperatures.

External declaration of raw ADC data for the temperatures

External declaration of raw ADC data for the temperature readings.

4.9.4.4 tempInverterLUT

```
const float tempInverterLUT[] [extern]
```

4.9.4.5 tempMotorLUT

```
const float tempMotorLUT[] [extern]
```

4.10 MEASUREMENTS.h

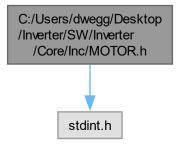
Go to the documentation of this file.

```
00001 /* USER CODE BEGIN Header */
00017 /* USER CODE END Header */
00018
00019
00020 #ifndef MEASUREMENTS_H
00021 #define MEASUREMENTS_H
00023 /\star Define current and voltage gains/offsets \star/
00024 #define CURRENT_SLOPE 54.4217687f
00025 #define CURRENT_OFFSET 1.70068027211f
00026 #define VOLTAGE_SLOPE 263.435f
00027 #define VOLTAGE_OFFSET 0.02083f
00029 #include <stdint.h>
00030
00031 extern const float tempInverterLUT[];
00032 extern const float tempMotorLUT[];
00033
00034 extern volatile uint32_t rawADC_left[4];
00035 extern volatile uint32_t rawADC_right[4];
00036 extern volatile uint32_t rawADC_temp[4];
00042 typedef struct {
00043
           uint16_t A;
00044
           uint16_t B;
00045
           uint16 t Z:
00046
          float we;
00047
           float theta_e;
00048
           float sinTheta_e;
00049
           float cosTheta_e;
00050
          uint8_t directionMeas;
00051 } Encoder;
00052
00056 typedef struct {
00057
          float ia;
00058
           float ib;
00059
           float ic;
00060
           float vDC:
00061 } Analog;
00062
00066 typedef struct {
00067
         float idMeas;
           float iqMeas;
00068
00069
           float torqueCalc;
00070
           float speedMeas;
00071 } Feedback;
00072
```

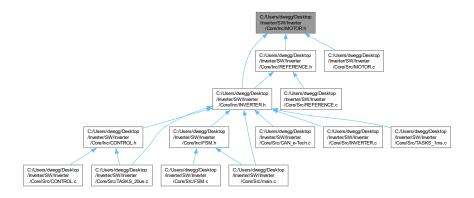
4.11 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/MOTOR.h File Reference

Header file for motor parameters.

```
#include <stdint.h>
Include dependency graph for MOTOR.h:
```



This graph shows which files directly or indirectly include this file:



Data Structures

• struct MotorParameters

Structure to hold motor parameters.

Functions

• int check_motor_parameters (MotorParameters *motor, float Ts)

Perform a parameter check and correct possible errors.

Variables

· MotorParameters motor left

Left motor parameters.

MotorParameters motor_right

Right motor parameters.

4.11.1 Detailed Description

Header file for motor parameters.

Attention

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4.11.2 Function Documentation

4.11.2.1 check_motor_parameters()

```
int check_motor_parameters ( {\color{red} {\tt MotorParameters}} \ * \ motor, float {\it Ts} )
```

Perform a parameter check and correct possible errors.

Parameters

in motor Pointer to the MotorParameters struct.

Return values

OK 0 if an error occurred, 1 if successful.

Here is the caller graph for this function:



4.11.3 Variable Documentation

4.11.3.1 motor_left

```
MotorParameters motor_left [extern]
```

Left motor parameters.

4.11.3.2 motor_right

```
MotorParameters motor_right [extern]
```

Right motor parameters.

4.12 **MOTOR.h**

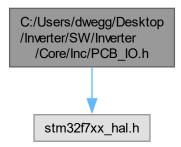
Go to the documentation of this file.

```
00001 /* USER CODE BEGIN Header */
00017 /* USER CODE END Header */
00018
00019 #ifndef MOTOR_H
00020 #define MOTOR_H
00021
00022 #include <stdint.h>
00023
00027 typedef struct {
          float Ld;
float Lq;
00028
00029
           float Rs;
float lambda;
00030
00031
           uint8_t pp;
float J;
00032
00033
00034
           float b;
           float torqueMax;
float dTorqueMax;
float speedMax_RPM;
00035
00036
00037
00038
           float iMax;
00039
           float vDCMax;
00041 } MotorParameters;
00042
00043 extern MotorParameters motor_left;
00044 extern MotorParameters motor_right;
00051 int check_motor_parameters(MotorParameters *motor, float Ts);
00052 \#endif /* MOTOR_H */
```

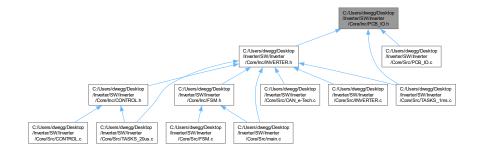
4.13 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/PCB_IO.h File Reference

Header file for handling GPIOs.

#include "stm32f7xx_hal.h"
Include dependency graph for PCB_IO.h:



This graph shows which files directly or indirectly include this file:



Data Structures

• struct LED

LED structure.

Macros

- #define SC_DET_STATE() (HAL_GPIO_ReadPin(SC_det_GPIO_Port, SC_det_Pin))
- #define DIR_STATE() (HAL_GPIO_ReadPin(DIR_GPIO_Port, DIR_Pin))
- #define WRN_STATE(port, pin) (HAL_GPIO_ReadPin(port, pin))
- #define ENABLE(port, pin) do { HAL_GPIO_WritePin(port, pin, GPIO_PIN_SET); } while(0)
- #define DISABLE(port, pin) do { HAL_GPIO_WritePin(port, pin, GPIO_PIN_RESET); } while(0)

Enumerations

enum LEDMode { LED_MODE_BLINK_FAST , LED_MODE_BLINK_SLOW , LED_MODE_ON , LED_MODE_OFF }

Functions

```
    void handle_LED (LED *led, uint32_t ms_counter)
    LED handler function.
```

• void handle_direction (volatile int8_t *dir_left, volatile int8_t *dir_right)

Handles the direction of the motors.

Variables

- · LED led left
- · LED led right
- LED ledError

4.13.1 Detailed Description

Header file for handling GPIOs.

Attention

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4.13.2 Macro Definition Documentation

4.13.2.1 DIR_STATE

```
#define DIR_STATE( ) (HAL_GPIO_ReadPin(DIR_GPIO_Port, DIR_Pin))
```

4.13.2.2 DISABLE

4.13.2.3 ENABLE

4.13.2.4 SC_DET_STATE

```
#define SC_DET_STATE() (HAL_GPIO_ReadPin(SC_det_GPIO_Port, SC_det_Pin))
```

4.13.2.5 WRN_STATE

4.13.3 Enumeration Type Documentation

4.13.3.1 LEDMode

```
enum LEDMode
```

Enumerator

| LED_MODE_BLINK_FAST | Fast blink mode |
|---------------------|-----------------|
| LED_MODE_BLINK_SLOW | Slow blink mode |
| LED_MODE_ON | LED on mode |
| LED_MODE_OFF | LED off mode |

4.13.4 Function Documentation

4.13.4.1 handle_direction()

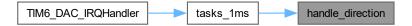
Handles the direction of the motors.

This function reads the state of the DIR switch and updates the directions of both the left and right motors. If one motor is set to rotate clockwise (CCW), the other one is set to rotate counterclockwise (CCW), and vice versa.

Parameters

| dir_left | Pointer to the direction parameter in the left inverter structure. |
|-----------|---------------------------------------------------------------------|
| dir_right | Pointer to the direction parameter in the right inverter structure. |

Here is the caller graph for this function:



4.13.4.2 handle_LED()

LED handler function.

This function handles the LED blinking modes based on the LED mode and current millisecond counter.

Parameters

| led | Pointer to the LED structure. |
|------------|---------------------------------|
| ms_counter | Millisecond counter for timing. |

This function handles the LED blinking modes based on the LED mode and current millisecond counter.

Parameters

| led | Pointer to the LED structure. |
|------------|-------------------------------|
| ms_counter | Current millisecond counter. |

Here is the caller graph for this function:



4.13.5 Variable Documentation

4.13.5.1 led_left

```
LED led_left [extern]
```

4.14 PCB IO.h 59

4.13.5.2 led_right

```
LED led_right [extern]
```

4.13.5.3 ledError

```
LED ledError [extern]
```

4.14 PCB IO.h

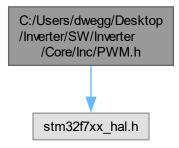
Go to the documentation of this file.

```
00001 /* USER CODE BEGIN Header */
00018 /* USER CODE END Header */
00020
00021 #ifndef PCB_IO_H
00022 #define PCB_IO_H
00023
00024 #include "stm32f7xx_hal.h"
00026 // Read SC_det and DIR GPIOs
00027 #define SC_DET_STATE()
                                          (HAL_GPIO_ReadPin(SC_det_GPIO_Port, SC_det_Pin))
00028 #define DIR_STATE()
                                          (HAL_GPIO_ReadPin(DIR_GPIO_Port, DIR_Pin))
00029
00030 // Read WRN GPIOs
00031 #define WRN_STATE(port, pin)
                                        (HAL_GPIO_ReadPin(port, pin))
00032
00033 // Control ENABLE GPIOs
00034 #define ENABLE(port, pin)
                                         do { HAL_GPIO_WritePin(port, pin, GPIO_PIN_SET); } while(0)
00035 #define DISABLE(port, pin)
                                        do { HAL_GPIO_WritePin(port, pin, GPIO_PIN_RESET); } while(0)
00036
00037 // Define LED modes
00038 typedef enum {
       LED_MODE_BLINK_FAST,
00039
00040
         LED_MODE_BLINK_SLOW,
        LED_MODE_ON,
00041
00042
         LED MODE OFF
00043 } LEDMode;
00044
00048 typedef struct {
       GPIO_TypeDef *port;
00049
        uint16_t pin;
00050
00051
         LEDMode mode;
00052 } LED;
00054 // Declare LED variables as extern
00055 extern LED led_left;
00056 extern LED led_right;
00057 extern LED ledError;
00058
00059 // Function prototypes
00068 void handle_LED(LED *led, uint32_t ms_counter);
00069
00081 void handle_direction(volatile int8_t *dir_left, volatile int8_t *dir_right);
00082
00083 #endif /* PCB_IO_H */
```

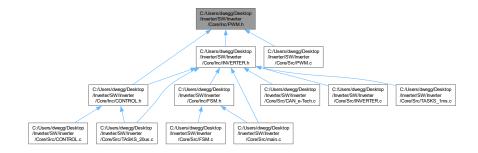
4.15 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/PWM.h File Reference

Header file for controlling PWM output.

#include "stm32f7xx_hal.h"
Include dependency graph for PWM.h:



This graph shows which files directly or indirectly include this file:



Data Structures

struct Duties

Structure to hold PWM configuration parameters.

Functions

• void enable_PWM (TIM_HandleTypeDef *htim)

Enable PWM output.

• void disable_PWM (TIM_HandleTypeDef *htim)

Disable PWM output.

• void update_PWM (TIM_HandleTypeDef *htim, Duties duties)

Set PWM duty cycles.

4.15.1 Detailed Description

Header file for controlling PWM output.

Attention

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4.15.2 Function Documentation

4.15.2.1 disable_PWM()

Disable PWM output.

This function disables PWM output for the specified timer.

Parameters

htim Pointer to the TIM_HandleTypeDef structure.

4.15.2.2 enable_PWM()

Enable PWM output.

This function enables PWM output for the specified timer.

Parameters

htim | Pointer to the TIM_HandleTypeDef structure.

4.15.2.3 update_PWM()

Set PWM duty cycles.

This function sets the duty cycles for the PWM channels.

Parameters

| | Pointer to the TIM_HandleTypeDef structure. | |
|--------|------------------------------------------------|--|
| duties | Duties structure containing duty cycle values. | |

Here is the caller graph for this function:



4.16 PWM.h

Go to the documentation of this file.

```
00001 /* USER CODE BEGIN Header */
00018 /* USER CODE END Header */
00020 #ifndef PWM_H
00021 #define PWM_H
00022
00023 #include "stm32f7xx_hal.h"
00024
00028 typedef struct {
        float Da;
00030
          float Db;
00031
          float Dc;
00032 } Duties;
00033
00041 void enable_PWM(TIM_HandleTypeDef *htim);
00050 void disable_PWM(TIM_HandleTypeDef *htim);
00051
00052
00061 void update_PWM(TIM_HandleTypeDef *htim, Duties duties);
00062
00063 #endif /* PWM_H */
```

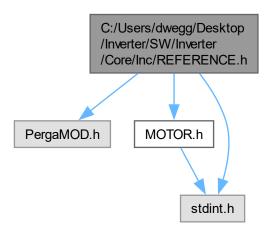
4.17 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/ REFERENCE.h File Reference

Header file for torque reference handling.

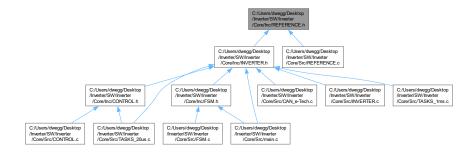
```
#include "PergaMOD.h"
#include "MOTOR.h"
```

#include <stdint.h>

Include dependency graph for REFERENCE.h:



This graph shows which files directly or indirectly include this file:



Data Structures

• struct Reference

Structure for reference values.

Functions

• float handle_torqueRef (float torqueRefIn, int8_t direction, float torqueMax, float speedMaxRPM, float speedMeas, volatile pi_struct *loopSpeed)

Handles torque control based on the reference torque, direction, maximum torque, maximum speed, measured speed, maximum torque rate of change, speed control loop parameters, and sampling time.

• float set_torque_direction (float torqueRef, int8_t direction)

Set torque direction based on inverter direction.

• float saturate_symmetric (float ref, float max)

Symmetrically saturate a reference value.

• float limit_torque_to_prevent_overspeed (float speedMax, float speedMeas, float torqueRefIn, volatile pi_
struct *loopSpeed)

Speed loop acts as a torque saturation, reducing torque in order to limit the maximum speed.

4.17.1 Detailed Description

Header file for torque reference handling.

Attention

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4.17.2 Function Documentation

4.17.2.1 handle_torqueRef()

Handles torque control based on the reference torque, direction, maximum torque, maximum speed, measured speed, maximum torque rate of change, speed control loop parameters, and sampling time.

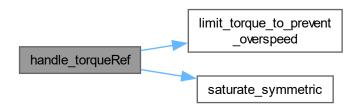
Parameters

| torqueRefIn | Input reference torque. |
|-------------|----------------------------------------------------------------------|
| direction | Direction of torque (1 for positive torque, -1 for negative torque). |
| torqueMax | Maximum allowable torque. |
| speedMaxRPM | Maximum allowable speed in RPM. |
| speedMeas | Measured speed. |
| loopSpeed | Speed control loop parameters. |

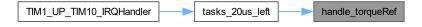
Returns

The output torque after handling direction, saturation, and rate limiting.

Here is the call graph for this function:



Here is the caller graph for this function:



4.17.2.2 limit_torque_to_prevent_overspeed()

Speed loop acts as a torque saturation, reducing torque in order to limit the maximum speed.

Parameters

| ir | speedMax | The maximum speed value in RPM. |
|----|------------------|----------------------------------------------------|
| ir | speedMeas | The measured speed value in RPM. |
| ir | torque⊷ RefIn | The torque reference value before this saturation. |
| ir | loopSpeed | Pointer to the speed PI controller structure. |

Returns

torqueRef_out The limited torque reference value after this saturation.

Parameters

| in | speedMaxRPM | The maximum speed value in RPM. |
|----|-------------|----------------------------------------------------|
| in | speedMeas | The measured speed value in RPM. |
| in | torqueRefIn | The torque reference value before this saturation. |
| in | loopSpeed | Pointer to the speed PI controller structure. |

Returns

torqueRefOut The limited torque reference value after this saturation.

Here is the caller graph for this function:



4.17.2.3 saturate_symmetric()

Symmetrically saturate a reference value.

This function symmetrically saturates a reference value based on the maximum allowed value. If the reference value exceeds the maximum allowed value, it is saturated to the maximum value. If the reference value is less than the negative of the maximum allowed value, it is saturated to the negative of the maximum value.

Parameters

| in | ref | The reference value to saturate. | |
|----|-----|-------------------------------------------|--|
| in | max | The maximum allowed value for saturation. | |

Returns

The saturated reference value.

Here is the caller graph for this function:



4.18 REFERENCE.h 67

4.17.2.4 set_torque_direction()

Set torque direction based on inverter direction.

This function adjusts the torque reference based on the direction of the inverter. If the inverter is set to rotate counterclockwise (CCW), positive torque represents braking. If the inverter is set to rotate clockwise (CW), positive torque represents traction.

Parameters

| in | torqueRef | The torque reference value to adjust. |
|----|-----------|------------------------------------------------------------------|
| in | direction | Pointer to the direction of the inverter (1 for CW, -1 for CCW). |

Returns

The adjusted torque reference value.

This function adjusts the torque reference based on the desired direction. If the motor is set to rotate counterclockwise (CCW), positive torque represents traction, negative is braking. If the motor is set to rotate clockwise (CW), negative torque represents traction, positive is braking.

Parameters

| in | torque← | The torque reference value to adjust. |
|----|-----------|------------------------------------------------------------------|
| | Refln | |
| in | direction | Pointer to the direction of the inverter (1 for CW, -1 for CCW). |

Returns

torqueRefOut The adjusted torque reference value.

4.18 REFERENCE.h

Go to the documentation of this file.

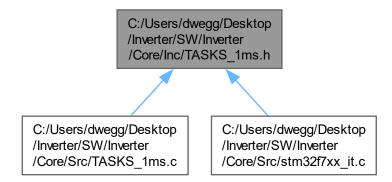
```
00001 /* USER CODE BEGIN Header */
00018 /* USER CODE END Header */
00019
00020 #ifndef REFERENCE_H
00021 #define REFERENCE_H
00022
00023 #include "PergaMOD.h" // ramp, pi struct 00024 #include "MOTOR.h" // motor struct
00025 #include <stdint.h>
00026
00030 typedef struct {
00031
          float idRef;
00032
           float iqRef;
00033
           float torqueRef;
00034 } Reference;
00035
00036
00050 float handle_torqueRef(float torqueRefIn, int8_t direction, float torqueMax, float speedMaxRPM, float
      speedMeas, volatile pi_struct *loopSpeed);
00051
```

```
00052
00064 float set_torque_direction(float torqueRef, int8_t direction);
00065
00077 float saturate_symmetric(float ref, float max);
00078
00087 float limit_torque_to_prevent_overspeed(float speedMax, float speedMeas, float torqueRefIn, volatile pi_struct *loopSpeed);
00088
00089 #endif /* REFERENCE_H */
```

4.19 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/TASKS_ 1ms.h File Reference

Header file for functions related to tasks executed every 1ms.

This graph shows which files directly or indirectly include this file:



Functions

void tasks_1ms (void)

Function to be executed every 1ms.

4.19.1 Detailed Description

Header file for functions related to tasks executed every 1ms.

Attention

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4.20 TASKS_1ms.h 69

4.19.2 Function Documentation

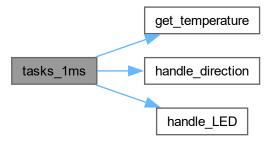
4.19.2.1 tasks_1ms()

```
void tasks_1ms (
     void )
```

Function to be executed every 1ms.

This function is called by the TIM6 IRQ handler every millisecond.

This function is called by the TIM6 IRQ handler every millisecond. It increments the millisecond counter and executes all the low priority tasks. Here is the call graph for this function:



Here is the caller graph for this function:



4.20 TASKS_1ms.h

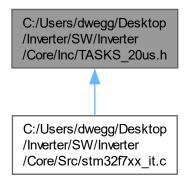
Go to the documentation of this file.

```
00001 /* USER CODE BEGIN Header */
00018 /* USER CODE END Header */
00019
00020
00021 #ifndef TASKS_1MS_H
00022 #define TASKS_1MS_H
00023
00029 void tasks_1ms(void);
00030
00031 #endif /* TASKS_1MS_H */
```

4.21 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Inc/TASKS_ 20us.h File Reference

Header file for functions related to tasks executed every 20us in each PWM timer interruption.

This graph shows which files directly or indirectly include this file:



Functions

void tasks_20us_left ()

Function to be executed every TS.

• void tasks 20us right ()

Function to be executed every TS.

4.21.1 Detailed Description

Header file for functions related to tasks executed every 20us in each PWM timer interruption.

Attention

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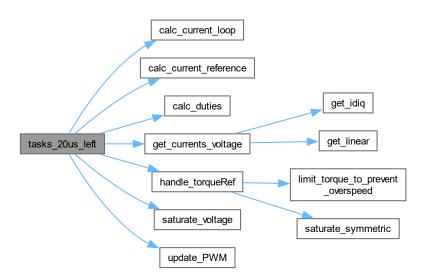
4.21.2 Function Documentation

4.21.2.1 tasks_20us_left()

Function to be executed every TS.

This function is called by the TIM1 trigger out handler every TS.

This function is called by the TIM1 trigger handler every TS. Here is the call graph for this function:



Here is the caller graph for this function:



4.21.2.2 tasks_20us_right()

```
void tasks_20us_right ( void )
```

Function to be executed every TS.

This function is called by the TIM8 trigger out handler every TS.

This function is called by the TIM8 trigger handler every TS.

4.22 TASKS 20us.h

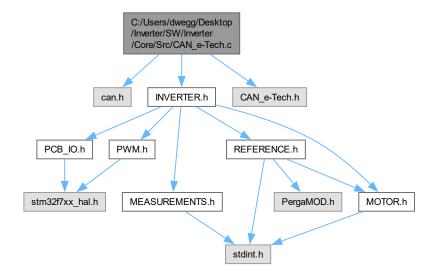
Go to the documentation of this file.

```
00001 /* USER CODE BEGIN Header */
00018 /* USER CODE END Header */
00019
00025 void tasks_20us_left();
00026
00032 void tasks_20us_right();
```

4.23 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/CAN_e Tech.c File Reference

This file contains functions to handle CAN communication with the car.

```
#include "can.h"
#include "INVERTER.h"
#include "CAN_e-Tech.h"
Include dependency graph for CAN_e-Tech.c:
```



Functions

- void handle_CAN (CAN_HandleTypeDef *hcan)
 - Handle CAN messages.
- void send_CAN_message (CAN_HandleTypeDef *hcan, void *dbc_msg, const float *data)

 Send a CAN message using CAN1db.h information.

Variables

• uint8_t keepAlive

4.23.1 Detailed Description

This file contains functions to handle CAN communication with the car.

Attention

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4.23.2 Function Documentation

4.23.2.1 handle_CAN()

```
void handle_CAN ( {\tt CAN\_HandleTypeDef} \ * \ hcan \ )
```

Handle CAN messages.

This function implements the logic to handle received CAN messages.

Parameters

```
hcan Pointer to the CAN handle structure.
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.23.2.2 send_CAN_message()

Send a CAN message using CAN1db.h information.

This function prepares and sends a CAN message using information from CAN1db.h.

Parameters

| hcan Pointer to the CAN handle structure. | |
|-------------------------------------------|----------------------------------------------------------------------------|
| dbc_msg | Pointer to the structure containing CAN message information from CAN1db.h. |
| data | Pointer to the array of float data to be sent. |

Here is the caller graph for this function:



4.23.3 Variable Documentation

4.23.3.1 keepAlive

uint8_t keepAlive

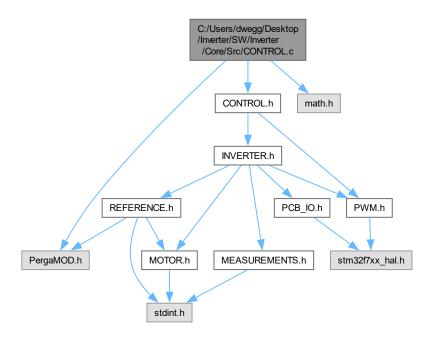
4.24 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/CONTROL.c File Reference

This file provides code for the control loop.

```
#include "CONTROL.h"
#include <math.h>
```

#include <PergaMOD.h>

Include dependency graph for CONTROL.c:



Functions

• void calc_current_reference (float we, float torqueRef, float vsRef, MotorParameters *motor, volatile float *idRef, volatile float *iqRef)

Calculates the current references based on electrical speed, torque reference, voltage reference, motor parameters, and updates the d-axis and q-axis current references. Just MTPA for now.

- void calc_current_loop (volatile InverterStruct *inv)
 - Calculates the id-iq loops.
- void saturate_voltage (volatile InverterStruct *inv)
 - Saturates PI output to not surpass DC voltage.
- void calc_duties (float vd, float vp, float vDC, float sinTheta_e, float cosTheta_e, volatile Duties *duties)
 function.

4.24.1 Detailed Description

This file provides code for the control loop.

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4.24.2 Function Documentation

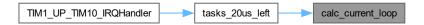
4.24.2.1 calc_current_loop()

Calculates the id-iq loops.

Parameters

```
inv Pointer to the inverter structure.
```

Here is the caller graph for this function:



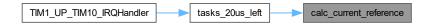
4.24.2.2 calc_current_reference()

Calculates the current references based on electrical speed, torque reference, voltage reference, motor parameters, and updates the d-axis and q-axis current references. Just MTPA for now.

Parameters

| in | we | Electrical speed in radians per second. |
|-----|-----------|--------------------------------------------|
| in | torqueRef | Torque reference. |
| in | vsRef | Voltage reference. |
| in | motor | Pointer to the motor parameters structure. |
| out | idRef | Pointer to the d-axis current reference. |
| out | iqRef | Pointer to the q-axis current reference. |

Here is the caller graph for this function:



4.24.2.3 calc_duties()

function.

This function calculates the inverse Park transform and the duty cycles using SVPWM

Parameters

| in | vd | Voltage in the d-axis. |
|-----|-----------|----------------------------------|
| in | vq | Voltage in the q-axis. |
| in | vDC | DC voltage. |
| in | sinTheta⊷ | Electrical angle sine (-11) |
| | _e | |
| in | cosTheta⇔ | Electrical angle cosine (-11) |
| | _e | |
| out | duties | Pointer to the duties structure. |

Here is the caller graph for this function:



4.24.2.4 saturate_voltage()

Saturates PI output to not surpass DC voltage.

Parameters

inv Pointer to the inverter structure.

Here is the caller graph for this function:

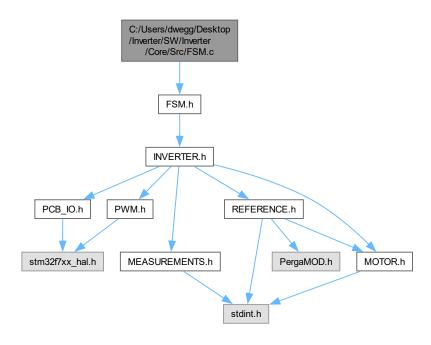


4.25 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/FSM.c File Reference

This file provides code for the inverter Finite State Machine.

#include "FSM.h"

Include dependency graph for FSM.c:



Functions

• void eval_inv_FSM (volatile InverterStruct *inv)

Execute the finite state machine for inverter.

4.25.1 Detailed Description

This file provides code for the inverter Finite State Machine.

Attention

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4.25.2 Function Documentation

4.25.2.1 eval inv FSM()

Execute the finite state machine for inverter.

Run the Finite State Machine (FSM) for inverter operation control.

This function executes the finite state machine to control the inverter based on its current state.

Parameters

inv Pointer to the inverter structure.

Here is the caller graph for this function:

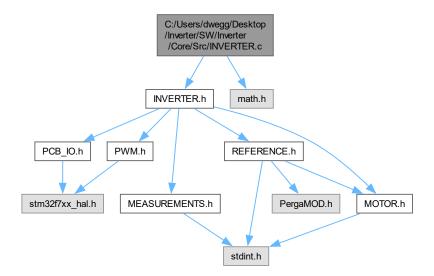


4.26 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/INVERTER.c File Reference

This file provides code for the inverter struct.

#include "INVERTER.h"
#include <math.h>

Include dependency graph for INVERTER.c:



Functions

void initialize_inverter (volatile InverterStruct *inv, LED *led, GPIO_TypeDef *enable_port, uint16_t enable
 _pin, TIM_HandleTypeDef *htim, ADC_HandleTypeDef *hadc, MotorParameters *motor)

Initialize the inverter.

• void init control loops (volatile InverterStruct *inv, MotorParameters *motor)

Initializes the PI controllers.

void enable_control_loops (volatile InverterStruct *inv)

Enables the PI controllers.

void disable_control_loops (volatile InverterStruct *inv)

Disables the PI controllers.

Variables

• volatile InverterStruct inverter_left = {0}

Left inverter structure.

• volatile InverterStruct inverter_right = {0}

Right inverter structure.

4.26.1 Detailed Description

This file provides code for the inverter struct.

Attention

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4.26.2 Function Documentation

4.26.2.1 disable_control_loops()

Disables the PI controllers.

Parameters

inv Pointer to the inverter structure.

4.26.2.2 enable_control_loops()

Enables the PI controllers.

Parameters

inv Pointer to the inverter structure.

4.26.2.3 init_control_loops()

Initializes the PI controllers.

Initializes the id-iq current control PI controllers.

Parameters

inv Pointer to the inverter structure.

Here is the caller graph for this function:



4.26.2.4 initialize_inverter()

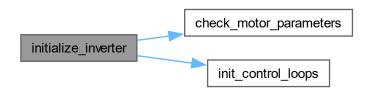
Initialize the inverter.

This function initializes the inverter structure with the specified LED, GPIO port, and pin.

Parameters

| out | inv | Pointer to the inverter structure. |
|-----|-------------|----------------------------------------------------------------------|
| in | led | Pointer to the LED structure. |
| in | enable_port | Pointer to the GPIO port for enabling/disabling the inverter. |
| in | enable_pin | Pin number for enabling/disabling the inverter. |
| in | htim | Timer peripheral for the PWM output. |
| in | hadc | ADC peripheral for the current phase current and DC voltage sensing. |
| in | motor | MotorParameters struct. |

Here is the call graph for this function:



Here is the caller graph for this function:



4.26.3 Variable Documentation

4.26.3.1 inverter_left

```
volatile InverterStruct inverter_left = {0}
```

Left inverter structure.

External declaration of the left inverter structure.

4.26.3.2 inverter_right

```
volatile InverterStruct inverter_right = {0}
```

Right inverter structure.

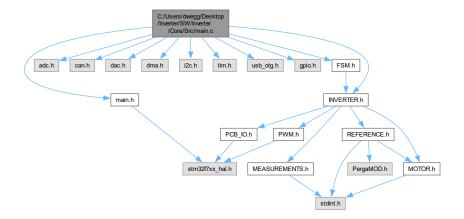
External declaration of the right inverter structure.

4.27 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/main.c File Reference

: Main program body

```
#include "main.h"
#include "adc.h"
#include "can.h"
#include "dac.h"
#include "dma.h"
#include "i2c.h"
#include "tim.h"
#include "usb_otg.h"
#include "gpio.h"
#include "FSM.h"
#include "INVERTER.h"
```

Include dependency graph for main.c:



Functions

void SystemClock_Config (void)

System Clock Configuration.

• int main (void)

The application entry point.

void Error_Handler (void)

This function is executed in case of error occurrence.

4.27.1 Detailed Description

: Main program body

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4.27.2 Function Documentation

4.27.2.1 Error_Handler()

This function is executed in case of error occurrence.

Return values

None

Here is the caller graph for this function:



4.27.2.2 main()

```
int main (
```

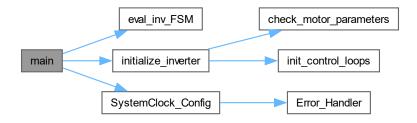
void)

The application entry point.

Return values

int

Here is the call graph for this function:



4.27.2.3 SystemClock_Config()

System Clock Configuration.

Return values

None

Configure the main internal regulator output voltage

Initializes the RCC Oscillators according to the specified parameters in the RCC_OscInitTypeDef structure.

Activate the Over-Drive mode

Initializes the CPU, AHB and APB buses clocksHere is the call graph for this function:



Here is the caller graph for this function:

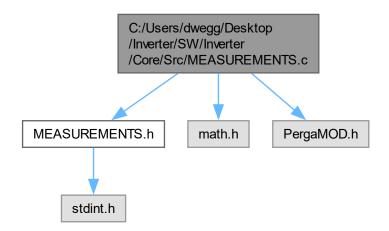


4.28 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/ MEASUREMENTS.c File Reference

This file provides functions for handling measurements.

```
#include "MEASUREMENTS.h"
#include <math.h>
#include <PergaMOD.h>
```

Include dependency graph for MEASUREMENTS.c:



Functions

• uint8_t get_currents_voltage (volatile uint32_t ADC_raw[], volatile Analog *analog, volatile Feedback *feedback, float sinTheta_e, float cosTheta_e)

Get electrical ADC measurements.

float get_linear (uint32_t bits, float slope, float offset)

Convert ADC reading to physical measurement with linear response.

• void get_idiq (float ia, float ib, float ic, float sinTheta_e, float cosTheta_e, float *idMeas, float *iqMeas)

Computes d-q currents from current measurements and electrical angle.

float get_temperature (uint32_t bits, const float tempLUT[])

Retrieves temperature from a lookup table based on ADC bits.

Variables

```
• const float tempInverterLUT [] = {-2.45, -2.44, -2.44, -2.43, -2.42, -2.42, -2.41, -2.41, -2.41, -2.40, -2.39, -2.39,
          -2.38, -2.37, -2.37, -2.36, -2.36, -2.35, -2.34, -2.34, -2.33, -2.32, -2.32, -2.31, -2.31, -2.30, -2.29, -2.29, -2.28,
          -2.27, -2.27, -2.26, -2.26, -2.25, -2.24, -2.24, -2.23, -2.22, -2.22, -2.21, -2.20, -2.20, -2.19, -2.19, -2.18, -2.17,
          -2.17, -2.16, -2.15, -2.15, -2.14, -2.14, -2.13, -2.12, -2.12, -2.11, -2.10, -2.10, -2.09, -2.08, -2.08, -2.07, -2.07,
          -2.06, -2.05, -2.05, -2.04, -2.03, -2.03, -2.02, -2.01, -2.01, -2.00, -2.00, -1.99, -1.98, -1.98, -1.97, -1.96, -1.96,
         -1.95, -1.94, -1.94, -1.93, -1.93, -1.92, -1.91, -1.91, -1.90, -1.89, -1.89, -1.88, -1.87, -1.87, -1.86, -1.86, -1.85, -1.85, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, -1.86, 
         -1.84, -1.84, -1.83, -1.82, -1.82, -1.81, -1.80, -1.80, -1.79, -1.78, -1.78, -1.77, -1.77, -1.76, -1.75, -1.75, -1.74, -1.74, -1.75, -1.75, -1.75, -1.75, -1.75, -1.74, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, -1.75, 
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volatile uint32_t rawADC_left [4] = {0}

Raw ADC data for the left inverter.

volatile uint32_t rawADC_right [4] = {0}

Raw ADC data for the right inverter.

• volatile uint32_t rawADC_temp [4] = {0}

Raw ADC data for the temperatures.

4.28.1 Detailed Description

This file provides functions for handling measurements.

Attention

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4.28.2 Function Documentation

4.28.2.1 get_currents_voltage()

Get electrical ADC measurements.

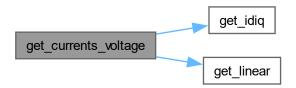
Parameters

| in | ADC_raw | Pointer to the raw ADC values array. |
|-----|-----------|----------------------------------------------------|
| out | analog | Pointer to the ADC struct to store the results. |
| out | feedback | Pointer to the Feedback struct to store id and iq. |
| in | sinTheta⊷ | Electrical angle sine (-11) |
| | _e | |
| in | cosTheta⇔ | Electrical angle cosine (-11) |
| | _e | |

Return values

OK 0 if an error occurred, 1 if successful.

Here is the call graph for this function:



Here is the caller graph for this function:



4.28.2.2 get_idiq()

Computes d-q currents from current measurements and electrical angle.

This function computes the d-q currents from phase currents (ABC), theta_e, and stores the results in the provided pointers.

Parameters

| in | ia | Phase A current in A. |
|-----|-----------|--------------------------------------|
| in | ib | Phase B current in A. |
| in | ic | Phase C current in A. |
| in | sinTheta⊷ | Electrical angle sine (-11) |
| | _e | |
| in | cosTheta⇔ | Electrical angle cosine (-11) |
| | _e | |
| out | idMeas | Pointer to store the D-axis current. |
| out | iqMeas | Pointer to store the Q-axis current. |

Here is the caller graph for this function:



4.28.2.3 get_linear()

Convert ADC reading to physical measurement with linear response.

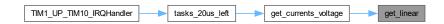
Parameters

| in | bits | The ADC reading. |
|----|--------|-----------------------------|
| in | slope | The slope (units per volt). |
| in | offset | The offset (volts at zero). |

Return values

| measurement | The physical measurement. |
|-------------|---------------------------|
|-------------|---------------------------|

Here is the caller graph for this function:



4.28.2.4 get_temperature()

Retrieves temperature from a lookup table based on ADC bits.

This function retrieves temperature from a lookup table based on the ADC bits. The lookup table (LUT) must have a value for each possible ADC bit combination.

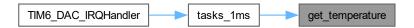
Parameters

| in | bits | ADC reading converted to bits. |
|----|---------|---------------------------------------------|
| in | tempLUT | Lookup table containing temperature values. |

Returns

Temperature corresponding to the provided ADC bits.

Here is the caller graph for this function:



4.28.3 Variable Documentation

4.28.3.1 rawADC_left

```
volatile uint32_t rawADC_left[4] = {0}
```

Raw ADC data for the left inverter.

External declaration of raw ADC data for the left inverter.

4.28.3.2 rawADC_right

```
volatile uint32_t rawADC_right[4] = {0}
```

Raw ADC data for the right inverter.

External declaration of raw ADC data for the right inverter.

4.28.3.3 rawADC_temp

```
volatile uint32_t rawADC_temp[4] = {0}
```

Raw ADC data for the temperatures.

External declaration of raw ADC data for the temperature readings.

4.28.3.4 tempInverterLUT

```
const float tempInverterLUT[] = \{-2.45, -2.44, -2.44, -2.43, -2.42, -2.42, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2.41, -2
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 32, -2.31, -2.31, -2.30, -2.29, -2.29, -2.28, -2.27, -2.27, -2.26, -2.26, -2.25, -2.24, -2. \leftrightarrow -2.27
24, -2.23, -2.22, -2.22, -2.21, -2.20, -2.20, -2.19, -2.19, -2.18, -2.17, -2.17, -2.16, -2. \leftrightarrow -2.19
15, -2.15, -2.14, -2.14, -2.13, -2.12, -2.12, -2.11, -2.10, -2.10, -2.09, -2.08, -2.08, -2. \longleftrightarrow -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.08, -2.0
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 99, -1.98, -1.98, -1.97, -1.96, -1.96, -1.95, -1.94, -1.94, -1.93, -1.93, -1.92, -1.91, -1. \leftrightarrow -1.94
 91, -1.90, -1.89, -1.89, -1.88, -1.87, -1.87, -1.86, -1.86, -1.85, -1.84, -1.84, -1.83, -1.4
82, \ -1.82, \ -1.81, \ -1.80, \ -1.80, \ -1.79, \ -1.78, \ -1.77, \ -1.77, \ -1.76, \ -1.75, \ -1.75, \ -1.4 \\
74, -1.73, -1.73, -1.72, -1.71, -1.71, -1.70, -1.69, -1.69, -1.68, -1.67, -1.67, -1.66, -1. \leftrightarrow -1.69
 66, -1.65, -1.64, -1.64, -1.63, -1.62, -1.62, -1.61, -1.60, -1.60, -1.59, -1.58, -1.58, -1. \leftrightarrow -1.60
 57, -1.56, -1.56, -1.55, -1.54, -1.54, -1.53, -1.53, -1.52, -1.51, -1.51, -1.50, -1.49, -1. \leftrightarrow -1.50
 49, \ -1.48, \ -1.47, \ -1.47, \ -1.46, \ -1.45, \ -1.45, \ -1.44, \ -1.43, \ -1.43, \ -1.42, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.4
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71, -0.70, -0.69, -0.69, -0.68, -0.67, -0.67, -0.66, -0.65, -0.65, -0.64, -0.63, -0.63, -0.64
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53, -0.52, -0.52, -0.51, -0.50, -0.50, -0.49, -0.48, -0.48, -0.47, -0.46, -0.46, -0.45, -0.49
 44, -0.43, -0.43, -0.42, -0.41, -0.41, -0.40, -0.39, -0.39, -0.38, -0.37, -0.37, -0.36, -0. \\ \leftarrow
 35, -0.35, -0.34, -0.33, -0.32, -0.32, -0.31, -0.30, -0.30, -0.29, -0.28, -0.28, -0.27, -0.40, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.20, -0.
26, -0.26, -0.25, -0.24, -0.23, -0.23, -0.22, -0.21, -0.21, -0.20, -0.19, -0.19, -0.18, -0. \\ \leftarrow
17, -0.17, -0.16, -0.15, -0.14, -0.14, -0.13, -0.12, -0.12, -0.11, -0.10, -0.10, -0.09, -0.08, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.000, -0.00
 -0.07, -0.07, -0.06, -0.05, -0.05, -0.04, -0.03, -0.02, -0.01, -0.00, 0.00, 0.01, 0.02, -0.01, -0.00, -0.01, -0.00, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.
0.02,\ 0.03,\ 0.04,\ 0.04,\ 0.05,\ 0.06,\ 0.07,\ 0.07,\ 0.08,\ 0.09,\ 0.09,\ 0.10,\ 0.11,\ 0.12,\ 0.12,\ 0. \leftarrow
13, 0.14, 0.14, 0.15, 0.16, 0.16, 0.17, 0.18, 0.19, 0.19, 0.20, 0.21, 0.21, 0.22, 0.23, 0.24,
0.24,\ 0.25,\ 0.26,\ 0.26,\ 0.27,\ 0.28,\ 0.29,\ 0.29,\ 0.30,\ 0.31,\ 0.31,\ 0.32,\ 0.33,\ 0.34,\ 0.34,\ 0.4 \leftarrow 0.4
35, 0.36, 0.36, 0.37, 0.38, 0.39, 0.39, 0.40, 0.41, 0.41, 0.42, 0.43, 0.44, 0.44, 0.45, 0.46,
0.46,\ 0.47,\ 0.48,\ 0.49,\ 0.49,\ 0.50,\ 0.51,\ 0.51,\ 0.52,\ 0.53,\ 0.54,\ 0.54,\ 0.55,\ 0.56,\ 0.56,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 0.60,\ 
57, 0.58, 0.59, 0.59, 0.60, 0.61, 0.61, 0.62, 0.63, 0.64, 0.64, 0.65, 0.66, 0.67, 0.67, 0.68,
0.69,\ 0.69,\ 0.70,\ 0.71,\ 0.72,\ 0.72,\ 0.73,\ 0.74,\ 0.75,\ 0.75,\ 0.76,\ 0.77,\ 0.77,\ 0.78,\ 0.79,\ 0.4 \leftarrow 0.75,\ 0.75,\ 0.75,\ 0.76,\ 0.77,\ 0.78,\ 0.78,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0.79,\ 0
80, 0.80, 0.81, 0.82, 0.83, 0.83, 0.84, 0.85, 0.85, 0.86, 0.87, 0.88, 0.88, 0.89, 0.90, 0.91,
0.91,\ 0.92,\ 0.93,\ 0.94,\ 0.94,\ 0.95,\ 0.96,\ 0.96,\ 0.97,\ 0.98,\ 0.99,\ 0.99,\ 1.00,\ 1.01,\ 1.02,\ 1. \leftarrow 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.90,\ 0.
02, 1.03, 1.04, 1.05, 1.05, 1.06, 1.07, 1.08, 1.08, 1.09, 1.10, 1.10, 1.11, 1.12, 1.13, 1.13,
1.14, 1.15, 1.16, 1.16, 1.17, 1.18, 1.19, 1.19, 1.20, 1.21, 1.22, 1.22, 1.23, 1.24, 1.25, 1.4
25, 1.26, 1.27, 1.28, 1.28, 1.29, 1.30, 1.31, 1.31, 1.32, 1.33, 1.34, 1.34, 1.35, 1.36, 1.37,
 1.37,\ 1.38,\ 1.39,\ 1.40,\ 1.40,\ 1.41,\ 1.42,\ 1.43,\ 1.43,\ 1.44,\ 1.45,\ 1.46,\ 1.46,\ 1.47,\ 1.48,\ 1.\leftrightarrow
49, 1.49, 1.50, 1.51, 1.52, 1.52, 1.53, 1.54, 1.55, 1.55, 1.56, 1.57, 1.58, 1.58, 1.59, 1.60,
1.61,\ 1.61,\ 1.62,\ 1.63,\ 1.64,\ 1.64,\ 1.65,\ 1.66,\ 1.67,\ 1.67,\ 1.68,\ 1.69,\ 1.70,\ 1.71,\ 1.71,\ 1.\leftrightarrow
72, 1.73, 1.74, 1.74, 1.75, 1.76, 1.77, 1.77, 1.78, 1.79, 1.80, 1.80, 1.81, 1.82, 1.83, 1.84,
1.84,\ 1.85,\ 1.86,\ 1.87,\ 1.87,\ 1.88,\ 1.89,\ 1.90,\ 1.90,\ 1.91,\ 1.92,\ 1.93,\ 1.93,\ 1.94,\ 1.95,\ 1.\leftrightarrow
 96, 1.97, 1.97, 1.98, 1.99, 2.00, 2.00, 2.01, 2.02, 2.03, 2.04, 2.04, 2.05, 2.06, 2.07, 2.07,
2.08,\ 2.09,\ 2.10,\ 2.10,\ 2.11,\ 2.12,\ 2.13,\ 2.14,\ 2.14,\ 2.15,\ 2.16,\ 2.17,\ 2.17,\ 2.18,\ 2.19,\ 2.\leftrightarrow 2.09
20, 2.21, 2.21, 2.22, 2.23, 2.24, 2.25, 2.25, 2.26, 2.27, 2.28, 2.28, 2.29, 2.30, 2.31, 2.32,
2.32,\ 2.33,\ 2.34,\ 2.35,\ 2.35,\ 2.36,\ 2.37,\ 2.38,\ 2.39,\ 2.39,\ 2.40,\ 2.41,\ 2.42,\ 2.43,\ 2.43,\ 2.\leftrightarrow
44, 2.45, 2.46, 2.46, 2.47, 2.48, 2.49, 2.50, 2.50, 2.51, 2.52, 2.53, 2.54, 2.54, 2.55, 2.56,
2.57,\ 2.58,\ 2.58,\ 2.59,\ 2.60,\ 2.61,\ 2.62,\ 2.62,\ 2.63,\ 2.64,\ 2.65,\ 2.66,\ 2.66,\ 2.67,\ 2.68,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 2.69,\ 
 69, 2.70, 2.70, 2.71, 2.72, 2.73, 2.74, 2.74, 2.75, 2.76, 2.77, 2.78, 2.78, 2.79, 2.80, 2.81,
2.82,\ 2.82,\ 2.83,\ 2.84,\ 2.85,\ 2.86,\ 2.86,\ 2.87,\ 2.88,\ 2.89,\ 2.90,\ 2.90,\ 2.91,\ 2.92,\ 2.93,\ 2.\leftrightarrow
94, 2.94, 2.95, 2.96, 2.97, 2.98, 2.98, 2.99, 3.00, 3.01, 3.02, 3.02, 3.03, 3.04, 3.05, 3.06,
3.07,\ 3.07,\ 3.08,\ 3.09,\ 3.10,\ 3.11,\ 3.11,\ 3.12,\ 3.13,\ 3.14,\ 3.15,\ 3.16,\ 3.16,\ 3.17,\ 3.18,\ 3.\leftrightarrow 3.10
```

19, 3.20, 3.20, 3.21, 3.22, 3.23, 3.24, 3.24, 3.25, 3.26, 3.27, 3.28, 3.29, 3.29, 3.30, 3.31, $3.32,\ 3.33,\ 3.34,\ 3.34,\ 3.35,\ 3.36,\ 3.37,\ 3.38,\ 3.38,\ 3.39,\ 3.40,\ 3.41,\ 3.42,\ 3.43,\ 3.43,\ 3.4$ 44, 3.45, 3.46, 3.47, 3.48, 3.48, 3.49, 3.50, 3.51, 3.52, 3.53, 3.53, 3.54, 3.55, 3.56, 3.57, $3.58,\ 3.58,\ 3.59,\ 3.60,\ 3.61,\ 3.62,\ 3.63,\ 3.63,\ 3.64,\ 3.65,\ 3.66,\ 3.67,\ 3.68,\ 3.68,\ 3.69,\ 3.69$ 70, 3.71, 3.72, 3.73, 3.73, 3.74, 3.75, 3.76, 3.77, 3.78, 3.78, 3.79, 3.80, 3.81, 3.82, 3.83, 3.83, 3.84, 3.85, 3.86, 3.87, 3.88, 3.89, 3.89, 3.90, 3.91, 3.92, 3.93, 3.94, 3.94, 3.95, 3.496, 3.97, 3.98, 3.99, 4.00, 4.00, 4.01, 4.02, 4.03, 4.04, 4.05, 4.05, 4.06, 4.07, 4.08, 4.09, $4.10,\ 4.11,\ 4.11,\ 4.12,\ 4.13,\ 4.14,\ 4.15,\ 4.16,\ 4.17,\ 4.17,\ 4.18,\ 4.19,\ 4.20,\ 4.21,\ 4.22,\ 4. \leftrightarrow 4.10$ 23, 4.23, 4.24, 4.25, 4.26, 4.27, 4.28, 4.29, 4.29, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35, 4.35, 4.36, 4.37, 4.38, 4.39, 4.40, 4.41, 4.42, 4.42, 4.43, 4.44, 4.45, 4.46, 4.47, 4.48, 4.48, 4.↔ 49, 4.50, 4.51, 4.52, 4.53, 4.54, 4.55, 4.55, 4.56, 4.57, 4.58, 4.59, 4.60, 4.61, 4.62, 4.62, 4.63, 4.64, 4.65, 4.66, 4.67, 4.68, 4.69, 4.69, 4.70, 4.71, 4.72, 4.73, 4.74, 4.75, 4.76, $4.4 \leftrightarrow 20$ 76, 4.77, 4.78, 4.79, 4.80, 4.81, 4.82, 4.83, 4.83, 4.84, 4.85, 4.86, 4.87, 4.88, 4.89, 4.90, $4.91,\ 4.91,\ 4.92,\ 4.93,\ 4.94,\ 4.95,\ 4.96,\ 4.97,\ 4.98,\ 4.99,\ 4.99,\ 5.00,\ 5.01,\ 5.02,\ 5.03,\ 5.\leftrightarrow 100$ 04, 5.05, 5.06, 5.07, 5.07, 5.08, 5.09, 5.10, 5.11, 5.12, 5.13, 5.14, 5.15, 5.16, 5.16, 5.17, $5.18, 5.19, 5.20, 5.21, 5.22, 5.23, 5.24, 5.24, 5.25, 5.26, 5.27, 5.28, 5.29, 5.30, 5.31, 5. \leftrightarrow 5.10$ 32, 5.33, 5.34, 5.34, 5.35, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.43, 5.44, 5.45, $5.46,\ 5.47,\ 5.48,\ 5.49,\ 5.50,\ 5.51,\ 5.52,\ 5.53,\ 5.53,\ 5.54,\ 5.55,\ 5.56,\ 5.57,\ 5.58,\ 5.59,\ 5.\leftrightarrow$ 60, 5.61, 5.62, 5.63, 5.64, 5.64, 5.65, 5.66, 5.67, 5.68, 5.69, 5.70, 5.71, 5.72, 5.73, 5.74, 5.75, 5.76, 5.76, 5.77, 5.78, 5.79, 5.80, 5.81, 5.82, 5.83, 5.84, 5.85, 5.86, 5.87, 5.88, 5.6088, 5.89, 5.90, 5.91, 5.92, 5.93, 5.94, 5.95, 5.96, 5.97, 5.98, 5.99, 6.00, 6.01, 6.01, 6.02, $6.03,\ 6.04,\ 6.05,\ 6.06,\ 6.07,\ 6.08,\ 6.09,\ 6.10,\ 6.11,\ 6.12,\ 6.13,\ 6.14,\ 6.15,\ 6.16,\ 6.16,\ 6.4$ 17, 6.18, 6.19, 6.20, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, $6.32,\ 6.33,\ 6.34,\ 6.35,\ 6.36,\ 6.37,\ 6.38,\ 6.39,\ 6.40,\ 6.41,\ 6.42,\ 6.43,\ 6.44,\ 6.45,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\$ 47, 6.48, 6.49, 6.50, 6.51, 6.51, 6.52, 6.53, 6.54, 6.55, 6.56, 6.57, 6.58, 6.59, 6.60, 6.61, $6.62,\ 6.63,\ 6.64,\ 6.65,\ 6.66,\ 6.67,\ 6.68,\ 6.69,\ 6.70,\ 6.71,\ 6.72,\ 6.73,\ 6.74,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 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7.41, 7.42, 7.43, 7.44, 7.45, 7.46, 7.47, 7.48, 7.49, 7.50, 7.51, 7.52, 7.53, 7.54, 7.55, 7.56, 7.57, 7.58, 7.59, 7.60, 7.61, 7.62, 7.63, 7.64, 7.65, 7.66, 7.67, 7.6968, 7.69, 7.70, 7.71, 7.72, 7.73, 7.74, 7.75, 7.76, 7.77, 7.78, 7.79, 7.80, 7.81, 7.82, 7.83, $7.84,\ 7.85,\ 7.86,\ 7.87,\ 7.88,\ 7.89,\ 7.91,\ 7.92,\ 7.93,\ 7.94,\ 7.95,\ 7.96,\ 7.97,\ 7.98,\ 7.99,\ 8. \leftrightarrow 3.89$ 00, 8.01, 8.02, 8.03, 8.04, 8.05, 8.06, 8.07, 8.08, 8.09, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, $8.16,\ 8.17,\ 8.18,\ 8.19,\ 8.20,\ 8.21,\ 8.22,\ 8.23,\ 8.24,\ 8.25,\ 8.26,\ 8.27,\ 8.29,\ 8.30,\ 8.31,\ 8.\leftrightarrow$ 32, 8.33, 8.34, 8.35, 8.36, 8.37, 8.38, 8.39, 8.40, 8.41, 8.42, 8.43, 8.44, 8.45, 8.46, 8.47, $8.48,\ 8.49,\ 8.50,\ 8.51,\ 8.52,\ 8.54,\ 8.55,\ 8.56,\ 8.57,\ 8.58,\ 8.59,\ 8.60,\ 8.61,\ 8.62,\ 8.63,\ 8.\leftrightarrow$ 64, 8.65, 8.66, 8.67, 8.68, 8.69, 8.70, 8.71, 8.72, 8.74, 8.75, 8.76, 8.77, 8.78, 8.79, 8.80, $8.81,\ 8.82,\ 8.83,\ 8.84,\ 8.85,\ 8.86,\ 8.87,\ 8.88,\ 8.89,\ 8.91,\ 8.92,\ 8.93,\ 8.94,\ 8.95,\ 8.96,\ 8.\leftrightarrow$ 97, 8.98, 8.99, 9.00, 9.01, 9.02, 9.03, 9.04, 9.06, 9.07, 9.08, 9.09, 9.10, 9.11, 9.12, 9.13, $9.14, \ 9.15, \ 9.16, \ 9.17, \ 9.18, \ 9.20, \ 9.21, \ 9.22, \ 9.23, \ 9.24, \ 9.25, \ 9.26, \ 9.27, \ 9.28, \ 9.29, \ 9.4 \leftrightarrow 9.20$ 30, 9.31, 9.33, 9.34, 9.35, 9.36, 9.37, 9.38, 9.39, 9.40, 9.41, 9.42, 9.43, 9.45, 9.46, 9.47, $9.48,\ 9.49,\ 9.50,\ 9.51,\ 9.52,\ 9.53,\ 9.54,\ 9.55,\ 9.57,\ 9.58,\ 9.59,\ 9.60,\ 9.61,\ 9.62,\ 9.63,\ 9.64$ 64, 9.65, 9.66, 9.68, 9.69, 9.70, 9.71, 9.72, 9.73, 9.74, 9.75, 9.76, 9.78, 9.79, 9.80, 9.81, $9.82,\ 9.83,\ 9.84,\ 9.85,\ 9.86,\ 9.88,\ 9.89,\ 9.90,\ 9.91,\ 9.92,\ 9.93,\ 9.94,\ 9.95,\ 9.96,\ 9.98,\ 9.\leftrightarrow 9.90$ 99, 10.00, 10.01, 10.02, 10.03, 10.04, 10.05, 10.07, 10.08, 10.09, 10.10, 10.11, 10.12, $10. \leftarrow$ $13,\ 10.14,\ 10.16,\ 10.17,\ 10.18,\ 10.19,\ 10.20,\ 10.21,\ 10.22,\ 10.24,\ 10.25,\ 10.26,\ 10.27,\ 10. \leftarrow$ 28, 10.29, 10.30, 10.31, 10.33, 10.34, 10.35, 10.36, 10.37, 10.38, 10.39, 10.41, 10.42, 10.42 $43,\ 10.44,\ 10.45,\ 10.46,\ 10.47,\ 10.49,\ 10.50,\ 10.51,\ 10.52,\ 10.53,\ 10.54,\ 10.55,\ 10.57,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 10.60,\ 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\leftrightarrow 11.75$

 $81, \ 11.82, \ 11.83, \ 11.85, \ 11.86, \ 11.87, \ 11.88, \ 11.89, \ 11.91, \ 11.92, \ 11.93, \ 11.94, \ 11.96, \ 11. \leftrightarrow 11.89$ 97, 11.98, 11.99, 12.00, 12.02, 12.03, 12.04, 12.05, 12.07, 12.08, 12.09, 12.10, 12.11, $12. \leftarrow$ $13, \ 12.14, \ 12.15, \ 12.16, \ 12.18, \ 12.19, \ 12.20, \ 12.21, \ 12.23, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12. \leftrightarrow 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.28, \ 12.24, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 12.28, \ 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13.31, 13.32, 13.33, 13.35, 13.36, 13.37, 13.38, 13.40, 13.41, 13.42, 13.44, 13. \leftrightarrow $45, \ 13.46, \ 13.48, \ 13.49, \ 13.50, \ 13.52, \ 13.53, \ 13.54, \ 13.55, \ 13.57, \ 13.58, \ 13.59, \ 13.61, \ 13. \leftrightarrow 13.59$ $62, \ 13.63, \ 13.65, \ 13.66, \ 13.67, \ 13.69, \ 13.70, \ 13.71, \ 13.73, \ 13.74, \ 13.75, \ 13.77, \ 13.78, \ 13. \leftrightarrow \ 13.74, \ 13.75, \ 13.77, \ 13.78, \ 13.78, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 13.79, \ 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14.97, 14.98, 15.00, 15.01, 15.02, 15. \leftrightarrow $04,\ 15.05,\ 15.07,\ 15.08,\ 15.09,\ 15.11,\ 15.12,\ 15.14,\ 15.15,\ 15.16,\ 15.18,\ 15.19,\ 15.21,\ 15. \hookleftarrow$ 22, 15.24, 15.25, 15.26, 15.28, 15.29, 15.31, 15.32, 15.33, 15.35, 15.36, 15.38, 15.39, $15. \Leftrightarrow$ $41,\ 15.42,\ 15.43,\ 15.45,\ 15.46,\ 15.48,\ 15.49,\ 15.51,\ 15.52,\ 15.54,\ 15.55,\ 15.56,\ 15.58,\ 15. \leftrightarrow$ 59, 15.61, 15.62, 15.64, 15.65, 15.66, 15.68, 15.69, 15.71, 15.72, 15.74, 15.75, 15.77, 15.↔ 78, 15.80, 15.81, 15.82, 15.84, 15.85, 15.87, 15.88, 15.90, 15.91, 15.93, 15.94, 15.96, 15. \leftrightarrow 97, 15.99, 16.00, 16.01, 16.03, 16.04, 16.06, 16.07, 16.09, 16.10, 16.12, 16.13, 16.15, 16.4 $16,\ 16.18,\ 16.19,\ 16.21,\ 16.22,\ 16.24,\ 16.25,\ 16.27,\ 16.28,\ 16.30,\ 16.31,\ 16.33,\ 16.34,\ 16. \leftrightarrow 100$ 35, 16.37, 16.38, 16.40, 16.41, 16.43, 16.44, 16.46, 16.47, 16.49, 16.50, 16.52, 16.53, 16.4055, 16.56, 16.58, 16.59, 16.61, 16.62, 16.64, 16.66, 16.67, 16.69, 16.70, 16.72, 16.73, 16.↔ 75, 16.76, 16.78, 16.79, 16.81, 16.82, 16.84, 16.85, 16.87, 16.88, 16.90, 16.91, 16.93, 16.494, 16.96, 16.97, 16.99, 17.01, 17.02, 17.04, 17.05, 17.07, 17.08, 17.10, 17.11, 17.13, $17. \leftrightarrow 10.00$ $14,\ 17.16,\ 17.17,\ 17.19,\ 17.21,\ 17.22,\ 17.24,\ 17.25,\ 17.27,\ 17.28,\ 17.30,\ 17.31,\ 17.33,\ 17. \leftrightarrow 19.10$ 35, 17.36, 17.38, 17.39, 17.41, 17.42, 17.44, 17.45, 17.47, 17.49, 17.50, 17.52, 17.53, 17. \leftrightarrow 55, 17.56, 17.58, 17.60, 17.61, 17.63, 17.64, 17.66, 17.67, 17.69, 17.71, 17.72, 17.74, 17.↔ 75, 17.77, 17.79, 17.80, 17.82, 17.83, 17.85, 17.86, 17.88, 17.90, 17.91, 17.93, 17.94, 17. \leftrightarrow 96, 17.98, 17.99, 18.01, 18.02, 18.04, 18.06, 18.07, 18.09, 18.11, 18.12, 18.14, 18.15, $18. \leftrightarrow 10^{-1}$ 17, 18.19, 18.20, 18.22, 18.23, 18.25, 18.27, 18.28, 18.30, 18.32, 18.33, 18.35, 18.36, 18.4038, 18.40, 18.41, 18.43, 18.45, 18.46, 18.48, 18.49, 18.51, 18.53, 18.54, 18.56, 18.58, $18.\leftrightarrow$ 59, 18.61, 18.63, 18.64, 18.66, 18.68, 18.69, 18.71, 18.73, 18.74, 18.76, 18.77, 18.79, $18. \leftrightarrow$ 81, 18.82, 18.84, 18.86, 18.87, 18.89, 18.91, 18.92, 18.94, 18.96, 18.97, 18.99, 19.01, $19. \leftrightarrow 19.01$ $02, 19.04, 19.06, 19.08, 19.09, 19.11, 19.13, 19.14, 19.16, 19.18, 19.19, 19.21, 19.23, 19. \Leftrightarrow$ $24, \ 19.26, \ 19.28, \ 19.29, \ 19.31, \ 19.33, \ 19.35, \ 19.36, \ 19.38, \ 19.40, \ 19.41, \ 19.43, \ 19.45, \ 19.40, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 19.41, \ 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20.87,\ 20.89,\ 20.91,\ 20.93,\ 20.95,\ 20.96,\ 20.98,\ 21.00,\ 21.02,\ 21.04,\ 21.06,\ 21. \hookleftarrow$ $07, \ 21.09, \ 21.11, \ 21.13, \ 21.15, \ 21.17, \ 21.18, \ 21.20, \ 21.22, \ 21.24, \ 21.26, \ 21.28, \ 21.29, \ 21. \\ \leftarrow$ $31, \ 21.33, \ 21.35, \ 21.37, \ 21.39, \ 21.41, \ 21.42, \ 21.44, \ 21.46, \ 21.48, \ 21.50, \ 21.52, \ 21.54, \ 21. \leftrightarrow \ 21.41, \ 21.42, \ 21.44, \ 21.44, \ 21.48, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 21.50, \ 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$32, 23.34, 23.36, 23.38, 23.40, 23.42, 23.44, 23.46, 23.48, 23.50, 23.52, 23.54, 23.56, 23. \leftrightarrow 23.56$

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58, 23.60, 23.62, 23.65, 23.67, 23.69, 23.71, 23.73, 23.75, 23.77, 23.79, 23.81, 23.83, 23.↔
 85,\ 23.87,\ 23.89,\ 23.91,\ 23.93,\ 23.95,\ 23.97,\ 24.00,\ 24.02,\ 24.04,\ 24.06,\ 24.08,\ 24.10,\ 24. \leftrightarrow 3.00
 12, 24.14, 24.16, 24.18, 24.20, 24.22, 24.25, 24.27, 24.29, 24.31, 24.33, 24.35, 24.37, 24.↔
39,\ 24.41,\ 24.43,\ 24.46,\ 24.48,\ 24.50,\ 24.52,\ 24.54,\ 24.56,\ 24.58,\ 24.60,\ 24.63,\ 24.65,\ 24.69
 67,\ 24.69,\ 24.71,\ 24.73,\ 24.75,\ 24.78,\ 24.80,\ 24.82,\ 24.84,\ 24.86,\ 24.88,\ 24.90,\ 24.93,\ 24. \Longleftrightarrow 3.
 95, 24.97, 24.99, 25.01, 25.03, 25.06, 25.08, 25.10, 25.12, 25.14, 25.16, 25.19, 25.21, 25.4
23, 25.25, 25.27, 25.30, 25.32, 25.34, 25.36, 25.38, 25.41, 25.43, 25.45, 25.47, 25.49, 25. \leftrightarrow 
 52, 25.54, 25.56, 25.58, 25.60, 25.63, 25.65, 25.67, 25.69, 25.72, 25.74, 25.76, 25.78, 25.↔
 81, 25.83, 25.85, 25.87, 25.89, 25.92, 25.94, 25.96, 25.98, 26.01, 26.03, 26.05, 26.08, 26. \leftrightarrow
 10,\ 26.12,\ 26.14,\ 26.17,\ 26.19,\ 26.21,\ 26.23,\ 26.26,\ 26.28,\ 26.30,\ 26.33,\ 26.35,\ 26.37,\ 26. \\ \leftarrow
 39,\ 26.42,\ 26.44,\ 26.46,\ 26.49,\ 26.51,\ 26.53,\ 26.56,\ 26.58,\ 26.60,\ 26.63,\ 26.65,\ 26.67,\ 26. \leftrightarrow 30
 69,\ 26.72,\ 26.74,\ 26.76,\ 26.79,\ 26.81,\ 26.83,\ 26.86,\ 26.88,\ 26.90,\ 26.93,\ 26.95,\ 26.98,\ 27. \leftrightarrow 3.00
00,\ 27.02,\ 27.05,\ 27.07,\ 27.09,\ 27.12,\ 27.14,\ 27.16,\ 27.19,\ 27.21,\ 27.24,\ 27.26,\ 27.28,\ 27. \leftrightarrow 27.29
31,\ 27.33,\ 27.35,\ 27.38,\ 27.40,\ 27.43,\ 27.45,\ 27.47,\ 27.50,\ 27.52,\ 27.55,\ 27.57,\ 27.59,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\
 62,\ 27.64,\ 27.67,\ 27.69,\ 27.72,\ 27.74,\ 27.76,\ 27.79,\ 27.81,\ 27.84,\ 27.86,\ 27.89,\ 27.91,\ 27.\leftrightarrow 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.85,\ 27.89,\ 27.91,\ 27.44,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27.84,\ 27
 93, 27.96, 27.98, 28.01, 28.03, 28.06, 28.08, 28.11, 28.13, 28.16, 28.18, 28.21, 28.23, 28. \leftrightarrow 
26, 28.28, 28.30, 28.33, 28.35, 28.38, 28.40, 28.43, 28.45, 28.48, 28.50, 28.53, 28.55, 28.\leftrightarrow
58,\ 28.60,\ 28.63,\ 28.66,\ 28.68,\ 28.71,\ 28.73,\ 28.76,\ 28.78,\ 28.81,\ 28.83,\ 28.86,\ 28.88,\ 28. \leftrightarrow
91, 28.93, 28.96, 28.99, 29.01, 29.04, 29.06, 29.09, 29.11, 29.14, 29.17, 29.19, 29.22, 29. \leftrightarrow
24,\ 29.27,\ 29.29,\ 29.32,\ 29.35,\ 29.37,\ 29.40,\ 29.42,\ 29.45,\ 29.48,\ 29.50,\ 29.53,\ 29.55,\ 29. \leftrightarrow 29.50
58, 29.61, 29.63, 29.66, 29.69, 29.71, 29.74, 29.76, 29.79, 29.82, 29.84, 29.87, 29.90, 29. \leftrightarrow 
92, 29.95, 29.98, 30.00, 30.03, 30.06, 30.08, 30.11, 30.14, 30.16, 30.19, 30.22, 30.24, 30.\leftrightarrow
27,\ 30.30,\ 30.33,\ 30.35,\ 30.38,\ 30.41,\ 30.43,\ 30.46,\ 30.49,\ 30.52,\ 30.54,\ 30.57,\ 30.60,\ 30.49,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\ 30.50,\
 62,\ 30.65,\ 30.68,\ 30.71,\ 30.73,\ 30.76,\ 30.79,\ 30.82,\ 30.84,\ 30.87,\ 30.90,\ 30.93,\ 30.96,\ 30. \leftrightarrow 30.90
 98, 31.01, 31.04, 31.07, 31.09, 31.12, 31.15, 31.18, 31.21, 31.23, 31.26, 31.29, 31.32, 31.4
 35,\ 31.37,\ 31.40,\ 31.43,\ 31.46,\ 31.49,\ 31.52,\ 31.54,\ 31.57,\ 31.60,\ 31.63,\ 31.66,\ 31.69,\ 31.49,\ 31.49,\ 31.57,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\ 31.60,\
72, 31.74, 31.87, 31.80, 31.83, 31.86, 31.89, 31.92, 31.95, 31.97, 32.00, 32.03, 32.06, 32. \leftrightarrow
09, 32.12, 32.15, 32.18, 32.21, 32.24, 32.27, 32.29, 32.32, 32.35, 32.38, 32.41, 32.44, 32.\leftrightarrow
47, 32.50, 32.53, 32.56, 32.59, 32.62, 32.65, 32.68, 32.71, 32.74, 32.77, 32.80, 32.83, 32.↔
 86,\ 32.89,\ 32.92,\ 32.95,\ 32.98,\ 33.01,\ 33.04,\ 33.07,\ 33.10,\ 33.13,\ 33.16,\ 33.19,\ 33.22,\ 33. \hookleftarrow
25, 33.28, 33.31, 33.34, 33.37, 33.40, 33.43, 33.46, 33.49, 33.53, 33.56, 33.59, 33.62, 33.\leftrightarrow
 65, 33.68, 33.71, 33.74, 33.77, 33.80, 33.84, 33.87, 33.90, 33.93, 33.96, 33.99, 34.02, 34.↔
05,\ 34.09,\ 34.12,\ 34.15,\ 34.18,\ 34.21,\ 34.24,\ 34.28,\ 34.31,\ 34.34,\ 34.37,\ 34.40,\ 34.43,\ 34.43
47,\ 34.50,\ 34.53,\ 34.56,\ 34.59,\ 34.63,\ 34.66,\ 34.69,\ 34.72,\ 34.76,\ 34.79,\ 34.82,\ 34.85,\ 34.69,\ 34.70,\ 34.70,\ 34.70,\ 34.70,\ 34.82,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\ 34.85,\
89,\ 34.92,\ 34.95,\ 34.98,\ 35.02,\ 35.05,\ 35.08,\ 35.11,\ 35.15,\ 35.18,\ 35.21,\ 35.25,\ 35.28,\ 35. \leftrightarrow
31, 35.35, 35.38, 35.41, 35.44, 35.48, 35.51, 35.54, 35.58, 35.61, 35.65, 35.68, 35.71, 35. \leftrightarrow
75, 35.78, 35.81, 35.85, 35.88, 35.91, 35.95, 35.98, 36.02, 36.05, 36.08, 36.12, 36.15, 36.44
19, 36.22, 36.26, 36.29, 36.33, 36.36, 36.39, 36.43, 36.46, 36.50, 36.53, 36.57, 36.60, 36.↔
 64, 36.67, 36.71, 36.74, 36.78, 36.81, 36.85, 36.88, 36.92, 36.95, 36.99, 37.02, 37.06, 37. \leftrightarrow 36.81
09, 37.13, 37.17, 37.20, 37.24, 37.27, 37.31, 37.34, 37.38, 37.42, 37.45, 37.49, 37.52, 37.\leftrightarrow
 56, 37.60, 37.63, 37.67, 37.71, 37.74, 37.78, 37.82, 37.85, 37.89, 37.93, 37.96, 38.00, 38.↔
04,\ 38.07,\ 38.11,\ 38.15,\ 38.18,\ 38.22,\ 38.26,\ 38.30,\ 38.33,\ 38.37,\ 38.41,\ 38.44,\ 38.48,\ 38. \leftrightarrow
 52, 38.56, 38.60, 38.63, 38.67, 38.71, 38.75, 38.78, 38.82, 38.86, 38.90, 38.94, 38.97, 39.↔
01, 39.05, 39.09, 39.13, 39.17, 39.21, 39.24, 39.28, 39.32, 39.36, 39.40, 39.44, 39.48, 39. \leftrightarrow
52,\ 39.56,\ 39.59,\ 39.63,\ 39.67,\ 39.71,\ 39.75,\ 39.79,\ 39.83,\ 39.87,\ 39.91,\ 39.95,\ 39.99,\ 40. \leftarrow
03,\ 40.07,\ 40.11,\ 40.15,\ 40.19,\ 40.23,\ 40.27,\ 40.31,\ 40.35,\ 40.39,\ 40.43,\ 40.47,\ 40.51,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\ 40.49,\
 55,\ 40.59,\ 40.64,\ 40.68,\ 40.72,\ 40.76,\ 40.80,\ 40.84,\ 40.88,\ 40.92,\ 40.96,\ 41.01,\ 41.05,\ 41.40,\ 41.01,\ 41.05,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\ 41.40,\
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19,\ 42.24,\ 42.28,\ 42.32,\ 42.37,\ 42.41,\ 42.46,\ 42.50,\ 42.54,\ 42.59,\ 42.63,\ 42.68,\ 42.72,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\ 42.42,\
76, 42.81, 42.85, 42.90, 42.94, 42.99, 43.03, 43.08, 43.12, 43.17, 43.21, 43.26, 43.30, 43.\leftrightarrow
35, 43.39, 43.44, 43.48, 43.53, 43.58, 43.62, 43.67, 43.71, 43.76, 43.81, 43.85, 43.90, 43.40
 94, 43.99, 44.04, 44.08, 44.13, 44.18, 44.23, 44.27, 44.32, 44.37, 44.41, 44.46, 44.51, 44.40
 56, 44.60, 44.65, 44.70, 44.75, 44.80, 44.84, 44.89, 44.94, 44.99, 45.04, 45.08, 45.13, 45.↔
 18,\ 45.23,\ 45.28,\ 45.33,\ 45.38,\ 45.43,\ 45.48,\ 45.53,\ 45.57,\ 45.62,\ 45.67,\ 45.72,\ 45.77,\ 45. \leftrightarrow 3.45
 82,\ 45.87,\ 45.92,\ 45.97,\ 46.02,\ 46.07,\ 46.12,\ 46.17,\ 46.23,\ 46.28,\ 46.33,\ 46.38,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\ 46.43,\
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06,\ 60.15,\ 60.23,\ 60.32,\ 60.40,\ 60.49,\ 60.57,\ 60.66,\ 60.75,\ 60.83,\ 60.92,\ 61.01,\ 61.10,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\ 61.40,\
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57, 63.67, 63.76, 63.86, 63.96, 64.06, 64.15, 64.25, 64.35, 64.45, 64.55, 64.65, 64.75, 64. ↔
85,\ 64.95,\ 65.05,\ 65.15,\ 65.25,\ 65.35,\ 65.46,\ 65.56,\ 65.66,\ 65.76,\ 65.87,\ 65.97,\ 66.08,\ 66.\\ \hookleftarrow
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58, 67.69, 67.80, 67.91, 68.03, 68.14, 68.25, 68.36, 68.48, 68.59, 68.71, 68.82, 68.94, 69. \leftrightarrow
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60,\ 70.73,\ 70.85,\ 70.97,\ 71.10,\ 71.22,\ 71.35,\ 71.47,\ 71.60,\ 71.73,\ 71.86,\ 71.98,\ 72.11,\ 72. \leftrightarrow 3.00
24,\ 72.37,\ 72.50,\ 72.63,\ 72.76,\ 72.90,\ 73.03,\ 73.16,\ 73.30,\ 73.43,\ 73.57,\ 73.70,\ 73.84,\ 73. \leftrightarrow 3.70
98,\ 74.11,\ 74.25,\ 74.39,\ 74.53,\ 74.67,\ 74.81,\ 74.95,\ 75.10,\ 75.24,\ 75.38,\ 75.53,\ 75.67,\ 75. \leftrightarrow 39.
82,\ 75.97,\ 76.11,\ 76.26,\ 76.41,\ 76.56,\ 76.71,\ 76.86,\ 77.01,\ 77.17,\ 77.32,\ 77.47,\ 77.63,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\
78,\ 77.94,\ 78.10,\ 78.26,\ 78.42,\ 78.58,\ 78.74,\ 78.90,\ 79.06,\ 79.23,\ 79.39,\ 79.55,\ 79.72,\ 79.40
89, 80.06, 80.23, 80.40, 80.57, 80.74, 80.91, 81.08, 81.26, 81.44, 81.61, 81.79, 81.97, 82.\leftrightarrow
15, 82.33, 82.51, 82.70, 82.88, 83.07, 83.25, 83.44, 83.63, 83.82, 84.01, 84.20, 84.40, 84.↔
59, 84.79, 84.98, 85.18, 85.38, 85.58, 85.79, 85.99, 86.20, 86.40, 86.61, 86.82, 87.03, 87.↔
24,\ 87.46,\ 87.67,\ 87.89,\ 88.11,\ 88.33,\ 88.55,\ 88.77,\ 89.00,\ 89.22,\ 89.45,\ 89.68,\ 89.91,\ 90. \leftrightarrow 39.89
14, \ 90.38, \ 90.62, \ 90.85, \ 91.09, \ 91.34, \ 91.58, \ 91.82, \ 92.07, \ 92.32, \ 92.57, \ 92.83, \ 93.08, \ 93. \leftrightarrow 93.99
34, 93.60, 93.86, 94.13, 94.39, 94.66, 94.93, 95.20, 95.48, 95.76, 96.04, 96.32, 96.61, 96.89,
97.18, 97.48, 97.77, 98.07, 98.37, 98.68, 98.98, 99.29, 99.61, 99.92, 100.24, 100.56, 100.89,
101.22,\ 101.55,\ 101.88,\ 102.22,\ 102.56,\ 102.91,\ 103.26,\ 103.61,\ 103.97,\ 104.33,\ 104.70,\ 105. \leftarrow
07, 105.44, 105.82, 106.20, 106.58, 106.98, 107.37, 107.77, 108.18, 108.59, 109.00, 109.42,
109.85,\ 110.28,\ 110.71,\ 111.16,\ 111.60,\ 112.06,\ 112.52,\ 112.99,\ 113.46,\ 113.94,\ 114.43,\ 114.49,\ 114.43,\ 114.49
92, 115.42, 115.93, 116.44, 116.97, 117.50, 118.04, 118.59, 119.14, 119.71, 120.29, 120.87,
121.47,\ 122.07,\ 122.69,\ 123.32,\ 123.95,\ 124.61,\ 125.27,\ 125.94,\ 126.63,\ 127.33,\ 128.05,\ 128. \leftrightarrow
78, 129.52, 130.29, 131.06, 131.86, 132.67, 133.50, 134.35, 135.22, 136.12, 137.03, 137.97,
138.93,\ 139.92,\ 140.93,\ 141.97,\ 143.05,\ 144.15,\ 145.29,\ 146.46,\ 147.67,\ 148.92,\ 150.22,\ 151. \leftarrow
55, 152.94, 154.38, 155.87, 157.42, 159.04, 160.72, 162.48, 164.33, 166.26, 168.29, 170.42,
172.68,\ 175.07,\ 177.60,\ 180.30,\ 183.19,\ 186.29,\ 189.63,\ 193.26,\ 197.23,\ 201.59,\ 206.43,\ 211. \leftarrow
86, 218.04, 225.19, 233.64, 243.93, 257.02, 274.82, 302.24, 360.00, 421.98, 421.98, 421.98,
421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 421.98,\ 4
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-1.62, -1.62, -1.61, -1.60, -1.60, -1.59, -1.58, -1.58, -1. \leftrightarrow$ $57, -1.56, -1.56, -1.55, -1.54, -1.54, -1.53, -1.53, -1.52, -1.51, -1.51, -1.50, -1.49, -1. \leftrightarrow -1.50$ $49, \ -1.48, \ -1.47, \ -1.47, \ -1.46, \ -1.45, \ -1.45, \ -1.44, \ -1.43, \ -1.43, \ -1.42, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ -1.41, \ 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-0.80, -0.4 $80, -0.79, -0.78, -0.78, -0.77, -0.76, -0.76, -0.75, -0.74, -0.73, -0.73, -0.72, -0.71, -0. \\ \leftarrow$ $71, \ -0.70, \ -0.69, \ -0.69, \ -0.68, \ -0.67, \ -0.66, \ -0.65, \ -0.65, \ -0.64, \ -0.63, \ -0.63, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ -0.64, \ 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-0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.20, \ -0.2$ $26, -0.26, -0.25, -0.24, -0.23, -0.23, -0.22, -0.21, -0.21, -0.20, -0.19, -0.19, -0.18, -0. \\ \leftarrow$ 17, -0.17, -0.16, -0.15, -0.14, -0.14, -0.13, -0.12, -0.12, -0.11, -0.10, -0.10, -0.09, -0.08,-0.07, -0.07, -0.06, -0.05, -0.05, -0.04, -0.03, -0.02, -0.01, -0.00, 0.00, 0.01, 0.02, -0.01, -0.00, -0.01, -0.00, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, -0.01, 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35, 0.36, 0.36, 0.37, 0.38, 0.39, 0.39, 0.40, 0.41, 0.41, 0.42, 0.43, 0.44, 0.44, 0.45, 0.46, $0.46,\ 0.47,\ 0.48,\ 0.49,\ 0.49,\ 0.50,\ 0.51,\ 0.51,\ 0.52,\ 0.53,\ 0.54,\ 0.54,\ 0.55,\ 0.56,\ 0.56,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 0.66,\ 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 $0.69,\ 0.69,\ 0.70,\ 0.71,\ 0.72,\ 0.72,\ 0.73,\ 0.74,\ 0.75,\ 0.75,\ 0.76,\ 0.77,\ 0.77,\ 0.78,\ 0.79,\ 0.4 \leftarrow 0.75,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 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0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0.70,\ 0$ 80, 0.80, 0.81, 0.82, 0.83, 0.83, 0.84, 0.85, 0.85, 0.86, 0.87, 0.88, 0.88, 0.89, 0.90, 0.91, $0.91,\ 0.92,\ 0.93,\ 0.94,\ 0.94,\ 0.95,\ 0.96,\ 0.96,\ 0.97,\ 0.98,\ 0.99,\ 0.99,\ 1.00,\ 1.01,\ 1.02,\ 1. \hookleftarrow$ 02, 1.03, 1.04, 1.05, 1.05, 1.06, 1.07, 1.08, 1.08, 1.09, 1.10, 1.10, 1.11, 1.12, 1.13, 1.13, $1..14, \ 1..15, \ 1..16, \ 1..16, \ 1..17, \ 1..18, \ 1..19, \ 1..19, \ 1..20, \ 1..21, \ 1..22, \ 1..22, \ 1..23, \ 1..24, \ 1..25, \ 1.. \leftrightarrow 1..19$ 25, 1.26, 1.27, 1.28, 1.28, 1.29, 1.30, 1.31, 1.31, 1.32, 1.33, 1.34, 1.34, 1.35, 1.36, 1.37, $1.37,\ 1.38,\ 1.39,\ 1.40,\ 1.40,\ 1.41,\ 1.42,\ 1.43,\ 1.43,\ 1.44,\ 1.45,\ 1.46,\ 1.46,\ 1.47,\ 1.48,\ 1.\leftrightarrow$ 49, 1.49, 1.50, 1.51, 1.52, 1.52, 1.53, 1.54, 1.55, 1.55, 1.56, 1.57, 1.58, 1.58, 1.59, 1.60, $1.61, 1.61, 1.62, 1.63, 1.64, 1.64, 1.65, 1.66, 1.67, 1.67, 1.68, 1.69, 1.70, 1.71, 1.71, 1. \leftarrow$ 72, 1.73, 1.74, 1.74, 1.75, 1.76, 1.77, 1.77, 1.78, 1.79, 1.80, 1.80, 1.81, 1.82, 1.83, 1.84, 1.84, 1.85, 1.86, 1.87, 1.87, 1.88, 1.89, 1.90, 1.90, 1.91, 1.92, 1.93, 1.93, 1.94, 1.95, 1.496, 1.97, 1.97, 1.98, 1.99, 2.00, 2.00, 2.01, 2.02, 2.03, 2.04, 2.04, 2.05, 2.06, 2.07, 2.07, $2.08,\ 2.09,\ 2.10,\ 2.10,\ 2.11,\ 2.12,\ 2.13,\ 2.14,\ 2.14,\ 2.15,\ 2.16,\ 2.17,\ 2.17,\ 2.18,\ 2.19,\ 2.\leftrightarrow 2.19$ 20, 2.21, 2.21, 2.22, 2.23, 2.24, 2.25, 2.25, 2.26, 2.27, 2.28, 2.28, 2.29, 2.30, 2.31, 2.32, $2.32,\ 2.33,\ 2.34,\ 2.35,\ 2.35,\ 2.36,\ 2.37,\ 2.38,\ 2.39,\ 2.39,\ 2.40,\ 2.41,\ 2.42,\ 2.43,\ 2.43,\ 2.42,\ 2.44,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 2.45,\ 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3.05, 3.06, 3.07, 3.07, 3.08, 3.09, 3.10, 3.11, 3.11, 3.12, 3.13, 3.14, 3.15, 3.16, 3.16, 3.17, 3.18, 3.19, 3.20, 3.20, 3.21, 3.22, 3.23, 3.24, 3.24, 3.25, 3.26, 3.27, 3.28, 3.29, 3.29, 3.30, 3.31, 3.32, 3.33, 3.34, 3.34, 3.35, 3.36, 3.37, 3.38, 3.38, 3.39, 3.40, 3.41, 3.42, 3.43, 3.43, 3.47, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 3.49, 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\ 3.75, \ 3.76, \ 3.77, \ 3.78, \ 3.78, \ 3.79, \ 3.80, \ 3.81, \ 3.82, \ 3.83, \ 3.81, \ 3.82, \ 3.83, \ 3.81, \ 3.82, \ 3.83, \ 3.81, \ 3.82, \ 3.83, \ 3.81, \ 3.82, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, \ 3.83, 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5.24, 5.24, 5.25, 5.26, 5.27, 5.28, 5.29, 5.30, 5.31, 5. \leftrightarrow$ 32, 5.33, 5.34, 5.34, 5.35, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.43, 5.44, 5.45, $5.46,\ 5.47,\ 5.48,\ 5.49,\ 5.50,\ 5.51,\ 5.52,\ 5.53,\ 5.53,\ 5.54,\ 5.55,\ 5.56,\ 5.57,\ 5.58,\ 5.59,\ 5. \leftrightarrow$ 60, 5.61, 5.62, 5.63, 5.64, 5.64, 5.65, 5.66, 5.67, 5.68, 5.69, 5.70, 5.71, 5.72, 5.73, 5.74, 5.75, 5.76, 5.76, 5.77, 5.78, 5.79, 5.80, 5.81, 5.82, 5.83, 5.84, 5.85, 5.86, 5.87, 5.88, 5.488, 5.89, 5.90, 5.91, 5.92, 5.93, 5.94, 5.95, 5.96, 5.97, 5.98, 5.99, 6.00, 6.01, 6.01, 6.02, $6.03,\ 6.04,\ 6.05,\ 6.06,\ 6.07,\ 6.08,\ 6.09,\ 6.10,\ 6.11,\ 6.12,\ 6.13,\ 6.14,\ 6.15,\ 6.16,\ 6.16,\ 6.4 \leftrightarrow 6.10$ 17, 6.18, 6.19, 6.20, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, $6.32,\ 6.33,\ 6.34,\ 6.35,\ 6.36,\ 6.37,\ 6.38,\ 6.39,\ 6.40,\ 6.41,\ 6.42,\ 6.43,\ 6.44,\ 6.45,\ 6.46,\ 6.44,\ 6.45,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 6.46,\ 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6.70,\ 6.71,\ 6.72,\ 6.73,\ 6.74,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 6.75,\ 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6.78, 6.79, 6.80, 6.81, 6.82, 6.83, 6.84, 6.85, 6.86, 6.87, 6.88, 6.89, 6.90, 6.91, 6.92, 6.93, 6.94, 6.95, 6.96, 6.97, 6.98, 6.99, 7.00, 7.01, 7.02, 7.03, 7.04, 7.05, 7.06, $7.\leftrightarrow$ 07, 7.08, 7.09, 7.10, 7.11, 7.12, 7.12, 7.13, 7.14, 7.15, 7.16, 7.17, 7.18, 7.19, 7.20, 7.21, $7.22,\ 7.23,\ 7.24,\ 7.25,\ 7.26,\ 7.27,\ 7.28,\ 7.29,\ 7.30,\ 7.31,\ 7.32,\ 7.33,\ 7.34,\ 7.35,\ 7.36,\ 7.\leftrightarrow 3.45$ 37, 7.38, 7.39, 7.40, 7.41, 7.42, 7.43, 7.44, 7.45, 7.46, 7.47, 7.48, 7.49, 7.50, 7.51, 7.52, $7.53,\ 7.54,\ 7.55,\ 7.56,\ 7.57,\ 7.58,\ 7.59,\ 7.60,\ 7.61,\ 7.62,\ 7.63,\ 7.64,\ 7.65,\ 7.66,\ 7.67,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 7.69,\ 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3.00$ 32, 8.33, 8.34, 8.35, 8.36, 8.37, 8.38, 8.39, 8.40, 8.41, 8.42, 8.43, 8.44, 8.45, 8.46, 8.47,

 $8.48,\ 8.49,\ 8.50,\ 8.51,\ 8.52,\ 8.54,\ 8.55,\ 8.56,\ 8.57,\ 8.58,\ 8.59,\ 8.60,\ 8.61,\ 8.62,\ 8.63,\ 8.\leftrightarrow$ 64, 8.65, 8.66, 8.67, 8.68, 8.69, 8.70, 8.71, 8.72, 8.74, 8.75, 8.76, 8.77, 8.78, 8.79, 8.80, 8.81, 8.82, 8.83, 8.84, 8.85, 8.86, 8.87, 8.88, 8.89, 8.91, 8.92, 8.93, 8.94, 8.95, 8.96, 8.↔ 97, 8.98, 8.99, 9.00, 9.01, 9.02, 9.03, 9.04, 9.06, 9.07, 9.08, 9.09, 9.10, 9.11, 9.12, 9.13, $9.14,\ 9.15,\ 9.16,\ 9.17,\ 9.18,\ 9.20,\ 9.21,\ 9.22,\ 9.23,\ 9.24,\ 9.25,\ 9.26,\ 9.27,\ 9.28,\ 9.29,\ 9.4,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 9.20,\ 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11.74, 11.75, 11.76, 11.77, 11.78, 11.80, $11.\leftrightarrow$ $81, \ 11.82, \ 11.83, \ 11.85, \ 11.86, \ 11.87, \ 11.88, \ 11.89, \ 11.91, \ 11.92, \ 11.93, \ 11.94, \ 11.96, \ 11. \leftrightarrow 11.89$ 97, 11.98, 11.99, 12.00, 12.02, 12.03, 12.04, 12.05, 12.07, 12.08, 12.09, 12.10, 12.11, $12.\leftrightarrow$ $13, \ 12.14, \ 12.15, \ 12.16, \ 12.18, \ 12.19, \ 12.20, \ 12.21, \ 12.23, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12. \leftrightarrow 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 12.24, \ 12.25, \ 12.26, \ 12.28, \ 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13.↔ $11, \ 13.12, \ 13.14, \ 13.15, \ 13.16, \ 13.18, \ 13.19, \ 13.20, \ 13.22, \ 13.23, \ 13.24, \ 13.25, \ 13.27, \ 13.4 \leftarrow$ 28, 13.29, 13.31, 13.32, 13.33, 13.35, 13.36, 13.37, 13.38, 13.40, 13.41, 13.42, 13.44, 13. \leftrightarrow $45, \ 13.46, \ 13.48, \ 13.49, \ 13.50, \ 13.52, \ 13.53, \ 13.54, \ 13.55, \ 13.57, \ 13.58, \ 13.59, \ 13.61, \ 13. \leftrightarrow 13.59$ 62, 13.63, 13.65, 13.66, 13.67, 13.69, 13.70, 13.71, 13.73, 13.74, 13.75, 13.77, 13.78, 13.6079, 13.81, 13.82, 13.83, 13.85, 13.86, 13.87, 13.89, 13.90, 13.91, 13.93, 13.94, 13.95, 13. \leftrightarrow 97, 13.98, 13.99, 14.01, 14.02, 14.03, 14.05, 14.06, 14.07, 14.09, 14.10, 14.11, 14.13, $14. \leftrightarrow 14.05$ $14,\ 14.16,\ 14.17,\ 14.18,\ 14.20,\ 14.21,\ 14.22,\ 14.24,\ 14.25,\ 14.26,\ 14.28,\ 14.29,\ 14.30,\ 14. \\ \longleftrightarrow$ $32, \ 14.33, \ 14.35, \ 14.36, \ 14.37, \ 14.39, \ 14.40, \ 14.41, \ 14.43, \ 14.44, \ 14.45, \ 14.47, \ 14.48, \ 14.49, \ 14.49, \ 14.49, \ 14.49, \ 14.49, \ 14.49, 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\leftrightarrow$ 67, 14.69, 14.70, 14.72, 14.73, 14.74, 14.76, 14.77, 14.79, 14.80, 14.81, 14.83, 14.84, $14. \leftrightarrow 14. \leftrightarrow$ 86, 14.87, 14.88, 14.90, 14.91, 14.93, 14.94, 14.95, 14.97, 14.98, 15.00, 15.01, 15.02, 15. \leftrightarrow $04,\ 15.05,\ 15.07,\ 15.08,\ 15.09,\ 15.11,\ 15.12,\ 15.14,\ 15.15,\ 15.16,\ 15.18,\ 15.19,\ 15.21,\ 15. \hookleftarrow$ $22, \ 15.24, \ 15.25, \ 15.26, \ 15.28, \ 15.29, \ 15.31, \ 15.32, \ 15.33, \ 15.35, \ 15.36, \ 15.38, \ 15.39, \ 15. \\ \leftrightarrow$ $41,\ 15.42,\ 15.43,\ 15.45,\ 15.46,\ 15.48,\ 15.49,\ 15.51,\ 15.52,\ 15.54,\ 15.55,\ 15.56,\ 15.58,\ 15. \leftrightarrow$ 59, 15.61, 15.62, 15.64, 15.65, 15.66, 15.68, 15.69, 15.71, 15.72, 15.74, 15.75, 15.77, 15. \leftrightarrow $78,\ 15.80,\ 15.81,\ 15.82,\ 15.84,\ 15.85,\ 15.87,\ 15.88,\ 15.90,\ 15.91,\ 15.93,\ 15.94,\ 15.96,\ 15. \leftrightarrow 15.90$ 97, 15.99, 16.00, 16.01, 16.03, 16.04, 16.06, 16.07, 16.09, 16.10, 16.12, 16.13, 16.15, 16.4 $16,\ 16.18,\ 16.19,\ 16.21,\ 16.22,\ 16.24,\ 16.25,\ 16.27,\ 16.28,\ 16.30,\ 16.31,\ 16.33,\ 16.34,\ 16. \leftrightarrow 100$ $35,\ 16.37,\ 16.38,\ 16.40,\ 16.41,\ 16.43,\ 16.44,\ 16.46,\ 16.47,\ 16.49,\ 16.50,\ 16.52,\ 16.53,\ 16. \leftrightarrow 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 16.40,\ 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$18. \leftrightarrow 10^{-1}$ $17,\ 18.19,\ 18.20,\ 18.22,\ 18.23,\ 18.25,\ 18.27,\ 18.28,\ 18.30,\ 18.32,\ 18.33,\ 18.35,\ 18.36,\ 18. \leftrightarrow$ 38, 18.40, 18.41, 18.43, 18.45, 18.46, 18.48, 18.49, 18.51, 18.53, 18.54, 18.56, 18.58, $18. \leftrightarrow$

59, 18.61, 18.63, 18.64, 18.66, 18.68, 18.69, 18.71, 18.73, 18.74, 18.76, 18.77, 18.79, $18. \leftrightarrow$ 81, 18.82, 18.84, 18.86, 18.87, 18.89, 18.91, 18.92, 18.94, 18.96, 18.97, 18.99, 19.01, $19. \leftarrow$ $02, \ 19.04, \ 19.06, \ 19.08, \ 19.09, \ 19.11, \ 19.13, \ 19.14, \ 19.16, \ 19.18, \ 19.19, \ 19.21, \ 19.23, \ 19. \\ \longleftrightarrow \ 19.18, \ 19.19, \ 19.21, \ 19.23, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 19.19, \ 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20.95,\ 20.96,\ 20.98,\ 21.00,\ 21.02,\ 21.04,\ 21.06,\ 21. \leftrightarrow 3.00$ $07, \ 21.09, \ 21.11, \ 21.13, \ 21.15, \ 21.17, \ 21.18, \ 21.20, \ 21.22, \ 21.24, \ 21.26, \ 21.28, \ 21.29, \ 21. \\ \leftrightarrow \ 21.24, \ 21.24, \ 21.25, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.28, \ 21.29, \ 21.24, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 21.28, \ 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23.14,\ 23.16,\ 23.18,\ 23.20,\ 23.22,\ 23.24,\ 23.26,\ 23.28,\ 23.30,\ 23. \hookleftarrow$ $32, 23.34, 23.36, 23.38, 23.40, 23.42, 23.44, 23.46, 23.48, 23.50, 23.52, 23.54, 23.56, 23. \leftrightarrow$ $58,\ 23.60,\ 23.62,\ 23.65,\ 23.67,\ 23.69,\ 23.71,\ 23.73,\ 23.75,\ 23.77,\ 23.79,\ 23.81,\ 23.83,\ 23. \leftrightarrow 3.65$ $85,\ 23.87,\ 23.89,\ 23.91,\ 23.93,\ 23.95,\ 23.97,\ 24.00,\ 24.02,\ 24.04,\ 24.06,\ 24.08,\ 24.10,\ 24. \leftrightarrow 3.00$ $12,\ 24.14,\ 24.16,\ 24.18,\ 24.20,\ 24.22,\ 24.25,\ 24.27,\ 24.29,\ 24.31,\ 24.33,\ 24.35,\ 24.37,\ 24.40)$ $39,\ 24.41,\ 24.43,\ 24.46,\ 24.48,\ 24.50,\ 24.52,\ 24.54,\ 24.56,\ 24.58,\ 24.60,\ 24.63,\ 24.65,\ 24. \leftrightarrow 3.$ $67,\ 24.69,\ 24.71,\ 24.73,\ 24.75,\ 24.78,\ 24.80,\ 24.82,\ 24.84,\ 24.86,\ 24.88,\ 24.90,\ 24.93,\ 24.\leftrightarrow 24.86$ 95, 24.97, 24.99, 25.01, 25.03, 25.06, 25.08, 25.10, 25.12, 25.14, 25.16, 25.19, 25.21, 25. \leftrightarrow 23, 25.25, 25.27, 25.30, 25.32, 25.34, 25.36, 25.38, 25.41, 25.43, 25.45, 25.47, 25.49, $25. \leftrightarrow 25. \leftrightarrow$ 52, 25.54, 25.56, 25.58, 25.60, 25.63, 25.65, 25.67, 25.69, 25.72, 25.74, 25.76, 25.78, 25.↔ $81,\ 25.83,\ 25.85,\ 25.87,\ 25.89,\ 25.92,\ 25.94,\ 25.96,\ 25.98,\ 26.01,\ 26.03,\ 26.05,\ 26.08,\ 26. \leftrightarrow 3.$ $10,\ 26.12,\ 26.14,\ 26.17,\ 26.19,\ 26.21,\ 26.23,\ 26.26,\ 26.28,\ 26.30,\ 26.33,\ 26.35,\ 26.37,\ 26. \leftrightarrow 20$ $39,\ 26.42,\ 26.44,\ 26.46,\ 26.49,\ 26.51,\ 26.53,\ 26.56,\ 26.58,\ 26.60,\ 26.63,\ 26.65,\ 26.67,\ 26. \leftrightarrow 30$ $69,\ 26.72,\ 26.74,\ 26.76,\ 26.79,\ 26.81,\ 26.83,\ 26.86,\ 26.88,\ 26.90,\ 26.93,\ 26.95,\ 26.98,\ 27. \leftarrow$ $00,\ 27.02,\ 27.05,\ 27.07,\ 27.09,\ 27.12,\ 27.14,\ 27.16,\ 27.19,\ 27.21,\ 27.24,\ 27.26,\ 27.28,\ 27. \leftrightarrow 27.29$ $31,\ 27.33,\ 27.35,\ 27.38,\ 27.40,\ 27.43,\ 27.45,\ 27.47,\ 27.50,\ 27.52,\ 27.55,\ 27.57,\ 27.59,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 27.49,\ 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28.08, 28.11, 28.13, 28.16, 28.18, 28.21, 28.23, $28. \leftrightarrow 28. \leftrightarrow$ $26,\ 28.28,\ 28.30,\ 28.33,\ 28.35,\ 28.38,\ 28.40,\ 28.45,\ 28.45,\ 28.48,\ 28.50,\ 28.53,\ 28.55,\ 28. \\ \longleftrightarrow$ 58, 28.60, 28.63, 28.66, 28.68, 28.71, 28.73, 28.76, 28.78, 28.81, 28.83, 28.86, 28.88, 28.↔ 91, 28.93, 28.96, 28.99, 29.01, 29.04, 29.06, 29.09, 29.11, 29.14, 29.17, 29.19, 29.22, $29. \leftrightarrow 29. \leftrightarrow$ $24,\ 29.27,\ 29.29,\ 29.32,\ 29.35,\ 29.37,\ 29.40,\ 29.42,\ 29.45,\ 29.48,\ 29.50,\ 29.53,\ 29.55,\ 29.49,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 29.50,\ 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34.92,\ 34.95,\ 34.98,\ 35.02,\ 35.05,\ 35.08,\ 35.11,\ 35.15,\ 35.18,\ 35.21,\ 35.25,\ 35.28,\ 35. \leftrightarrow$ $31,\ 35.35,\ 35.38,\ 35.41,\ 35.44,\ 35.48,\ 35.51,\ 35.54,\ 35.58,\ 35.61,\ 35.65,\ 35.68,\ 35.71,\ 35. \leftrightarrow 35.61,\ 35.65,\ 35.61,\ 35.65,\ 35.61,\ 35.65,\ 35.61,\ 35.65,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 35.61,\ 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64,\ 41.68,\ 41.72,\ 41.76,\ 41.81,\ 41.85,\ 41.89,\ 41.93,\ 41.98,\ 42.02,\ 42.06,\ 42.11,\ 42.15,\ 42. \hookleftarrow
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29,\ 49.34,\ 49.40,\ 49.46,\ 49.52,\ 49.57,\ 49.63,\ 49.69,\ 49.75,\ 49.80,\ 49.86,\ 49.92,\ 49.98,\ 50. \leftrightarrow 30.99
04, 50.10, 50.16, 50.21, 50.27, 50.33, 50.39, 50.45, 50.51, 50.57, 50.63, 50.69, 50.75, 50.69
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27, 53.34, 53.40, 53.47, 53.54, 53.60, 53.67, 53.74, 53.80, 53.87, 53.94, 54.01, 54.08, 54. \Leftrightarrow
14,\ 54.21,\ 54.28,\ 54.35,\ 54.42,\ 54.49,\ 54.56,\ 54.63,\ 54.70,\ 54.76,\ 54.83,\ 54.90,\ 54.98,\ 55. \leftrightarrow 35.
05,\ 55.12,\ 55.19,\ 55.26,\ 55.33,\ 55.40,\ 55.47,\ 55.54,\ 55.62,\ 55.69,\ 55.76,\ 55.83,\ 55.91,\ 55. \\ \longleftrightarrow
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94, 57.02, 57.10, 57.17, 57.25, 57.32, 57.40, 57.48, 57.56, 57.63, 57.71, 57.79, 57.87, 57.67
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85, 64.95, 65.05, 65.15, 65.25, 65.35, 65.46, 65.56, 65.66, 65.76, 65.87, 65.97, 66.08, 66. \leftrightarrow
18,\ 66.29,\ 66.39,\ 66.50,\ 66.61,\ 66.71,\ 66.82,\ 66.93,\ 67.03,\ 67.14,\ 67.25,\ 67.36,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\ 67.47,\
58,\ 67.69,\ 67.80,\ 67.91,\ 68.03,\ 68.14,\ 68.25,\ 68.36,\ 68.48,\ 68.59,\ 68.71,\ 68.82,\ 68.94,\ 69. \leftrightarrow
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24,\ 72.37,\ 72.50,\ 72.63,\ 72.76,\ 72.90,\ 73.03,\ 73.16,\ 73.30,\ 73.43,\ 73.57,\ 73.70,\ 73.84,\ 73. \hookleftarrow
98,\ 74.11,\ 74.25,\ 74.39,\ 74.53,\ 74.67,\ 74.81,\ 74.95,\ 75.10,\ 75.24,\ 75.38,\ 75.53,\ 75.67,\ 75. \leftrightarrow 39.
82,\ 75.97,\ 76.11,\ 76.26,\ 76.41,\ 76.56,\ 76.71,\ 76.86,\ 77.01,\ 77.17,\ 77.32,\ 77.47,\ 77.63,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\ 77.49,\
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15,\ 82.33,\ 82.51,\ 82.70,\ 82.88,\ 83.07,\ 83.25,\ 83.44,\ 83.63,\ 83.82,\ 84.01,\ 84.20,\ 84.40,\ 84. \\ \leftarrow
59,\ 84.79,\ 84.98,\ 85.18,\ 85.38,\ 85.58,\ 85.79,\ 85.99,\ 86.20,\ 86.40,\ 86.61,\ 86.82,\ 87.03,\ 87. \hookleftarrow
24, 87.46, 87.67, 87.89, 88.11, 88.33, 88.55, 88.77, 89.00, 89.22, 89.45, 89.68, 89.91, 90. \leftrightarrow
14,\ 90.38,\ 90.62,\ 90.85,\ 91.09,\ 91.34,\ 91.58,\ 91.82,\ 92.07,\ 92.32,\ 92.57,\ 92.83,\ 93.08,\ 93. \hookleftarrow
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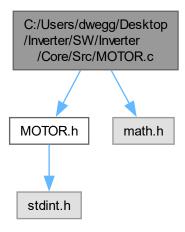
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86, 218.04, 225.19, 233.64, 243.93, 257.02, 274.82, 302.24, 360.00, 421.98, 421.98, 421.98,
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 421.981
```

4.29 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/MOTOR.c File Reference

Source file for motor parameters.

#include "MOTOR.h"
#include <math.h>

Include dependency graph for MOTOR.c:



Functions

• int check_motor_parameters (MotorParameters *motor, float Ts)

Perform a parameter check and correct possible errors.

Variables

- MotorParameters motor_left
 Left motor parameters.
- MotorParameters motor_right

Right motor parameters.

4.29.1 Detailed Description

Source file for motor parameters.

Attention

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4.29.2 Function Documentation

4.29.2.1 check_motor_parameters()

Perform a parameter check and correct possible errors.

Parameters

| in motor Pointer to the MotorParameters stru | ct. |
|----------------------------------------------|-----|
|----------------------------------------------|-----|

Return values

```
OK 0 if an error occurred, 1 if successful.
```

Here is the caller graph for this function:



4.29.3 Variable Documentation

4.29.3.1 motor_left

MotorParameters motor_left

Initial value:

```
= {
    .Ld = 0.00291F,
    .Lq = 0.00291F,
    .Rs = 1.95F,
    .lambda = 0.13391F,
    .pp = 4,
    .J = 0.00093F,
    .b = 0.632653F,
    .torqueMax = 10.0F,
    .dTorqueMax = 1.0F,
    .speedMax_RPM = 8500.0F,
    .iMax = 60.0F,
    .vDCMax = 450.0F
```

Left motor parameters.

4.29.3.2 motor_right

MotorParameters motor_right

Initial value:

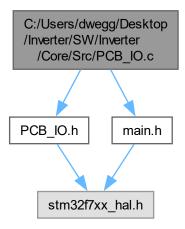
```
= {
    .Ld = 0.00291F,
    .Lq = 0.00291F,
    .Rs = 1.95F,
    .lambda = 0.13391F,
    .pp = 4,
    .J = 0.00093F,
    .b = 0.632653F,
    .torqueMax = 10.0F,
    .dTorqueMax = 1.0F,
    .speedMax_RPM = 8500.0F,
    .iMax = 60.0F,
    .vDCMax = 450.0F
```

Right motor parameters.

4.30 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/PCB_IO.c File Reference

This file provides functions for handling GPIOs.

```
#include "PCB_IO.h"
#include "main.h"
Include dependency graph for PCB_IO.c:
```



Functions

- void handle_LED (LED *led, uint32_t ms_counter)
 LED handler function.
- void handle_direction (volatile int8_t *dir_left, volatile int8_t *dir_right)

 Handles the direction of the motors.

Variables

- LED led_left = { .port = LED_LEFT_GPIO_Port, .pin = LED_LEFT_Pin, .mode = LED_MODE_OFF }
- LED led_right = { .port = LED_RIGHT_GPIO_Port, .pin = LED_RIGHT_Pin, .mode = LED_MODE_OFF }
- LED ledError = { .port = LED_ERR_GPIO_Port, .pin = LED_ERR_Pin, .mode = LED_MODE_OFF }

4.30.1 Detailed Description

This file provides functions for handling GPIOs.

Attention

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4.30.2 Function Documentation

4.30.2.1 handle_direction()

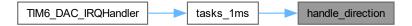
Handles the direction of the motors.

This function reads the state of the DIR switch and updates the directions of both the left and right motors. If one motor is set to rotate clockwise (CCW), the other one is set to rotate counterclockwise (CCW), and vice versa.

Parameters

| dir_left | Pointer to the direction parameter in the left inverter structure. |
|-----------|---------------------------------------------------------------------|
| dir_right | Pointer to the direction parameter in the right inverter structure. |

Here is the caller graph for this function:



4.30.2.2 handle_LED()

LED handler function.

This function handles the LED blinking modes based on the LED mode and current millisecond counter.

Parameters

| led | Pointer to the LED structure. |
|------------|-------------------------------|
| ms counter | Current millisecond counter. |

Here is the caller graph for this function:



4.30.3 Variable Documentation

4.30.3.1 led_left

```
LED led_left = { .port = LED_LEFT_GPIO_Port, .pin = LED_LEFT_Pin, .mode = LED_MODE_OFF }

4.30.3.2 led_right

LED led_right = { .port = LED_RIGHT_GPIO_Port, .pin = LED_RIGHT_Pin, .mode = LED_MODE_OFF }

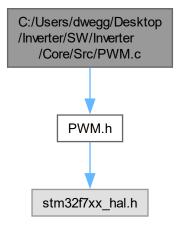
4.30.3.3 ledError

LED ledError = { .port = LED_ERR_GPIO_Port, .pin = LED_ERR_Pin, .mode = LED_MODE_OFF }
```

4.31 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/PWM.c File Reference

This file provides functions for controlling PWM output.

```
#include "PWM.h"
Include dependency graph for PWM.c:
```



Functions

```
• void <a href="mailto:enable_PWM">enable_PWM</a> (TIM_HandleTypeDef *htim)
```

Enable PWM output.

void disable_PWM (TIM_HandleTypeDef *htim)

Disable PWM output.

• void update_PWM (TIM_HandleTypeDef *htim, Duties duties)

Set PWM duty cycles.

4.31.1 Detailed Description

This file provides functions for controlling PWM output.

Attention

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4.31.2 Function Documentation

4.31.2.1 disable_PWM()

Disable PWM output.

This function disables PWM output for the specified timer.

Parameters

```
htim Pointer to the TIM_HandleTypeDef structure.
```

4.31.2.2 enable_PWM()

Enable PWM output.

This function enables PWM output for the specified timer.

Parameters

| | htim | Pointer to the TIM_HandleTypeDef structure. | Pointer to the TIM |
|--|------|---------------------------------------------|--------------------|
|--|------|---------------------------------------------|--------------------|

4.31.2.3 update_PWM()

Set PWM duty cycles.

This function sets the duty cycles for the PWM channels.

Parameters

| htim | Pointer to the TIM_HandleTypeDef structure. |
|--------|------------------------------------------------|
| duties | Duties structure containing duty cycle values. |

Here is the caller graph for this function:

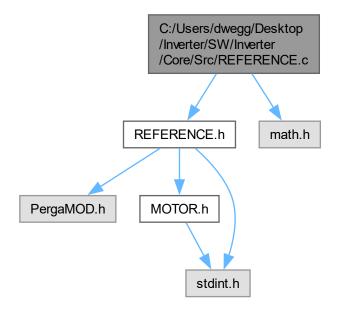


4.32 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/ REFERENCE.c File Reference

Source file for torque reference handling.

```
#include "REFERENCE.h"
#include <math.h>
```

Include dependency graph for REFERENCE.c:



Functions

• float handle_torqueRef (float torqueRefIn, int8_t direction, float torqueMax, float speedMaxRPM, float speedMeas, volatile pi_struct *loopSpeed)

Handles torque control based on the reference torque, direction, maximum torque, maximum speed, measured speed, maximum torque rate of change, speed control loop parameters, and sampling time.

- float set_torque_direction (float torqueRefIn, int8_t direction)
 - Set torque direction based on inverter direction.
- float saturate_symmetric (float ref, float max)
 - Symmetrically saturate a reference value.
- float limit_torque_to_prevent_overspeed (float speedMaxRPM, float speedMeas, float torqueRefIn, volatile pi_struct *loopSpeed)

Speed loop acts as a torque saturation, reducing torque in order to limit the maximum speed.

4.32.1 Detailed Description

Source file for torque reference handling.

Attention

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4.32.2 Function Documentation

4.32.2.1 handle_torqueRef()

Handles torque control based on the reference torque, direction, maximum torque, maximum speed, measured speed, maximum torque rate of change, speed control loop parameters, and sampling time.

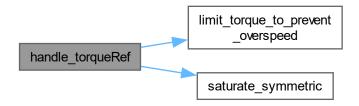
Parameters

| torqueRefIn | Input reference torque. |
|-------------|----------------------------------------------------------------------|
| direction | Direction of torque (1 for positive torque, -1 for negative torque). |
| torqueMax | Maximum allowable torque. |
| speedMaxRPM | Maximum allowable speed in RPM. |
| speedMeas | Measured speed. |
| loopSpeed | Speed control loop parameters. |

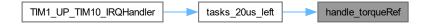
Returns

The output torque after handling direction, saturation, and rate limiting.

Here is the call graph for this function:



Here is the caller graph for this function:



4.32.2.2 limit_torque_to_prevent_overspeed()

Speed loop acts as a torque saturation, reducing torque in order to limit the maximum speed.

Parameters

| in | speedMaxRPM | The maximum speed value in RPM. |
|----|-------------|----------------------------------------------------|
| in | speedMeas | The measured speed value in RPM. |
| in | torqueRefIn | The torque reference value before this saturation. |
| in | loopSpeed | Pointer to the speed PI controller structure. |

Returns

torqueRefOut The limited torque reference value after this saturation.

Here is the caller graph for this function:



4.32.2.3 saturate_symmetric()

Symmetrically saturate a reference value.

This function symmetrically saturates a reference value based on the maximum allowed value. If the reference value exceeds the maximum allowed value, it is saturated to the maximum value. If the reference value is less than the negative of the maximum allowed value, it is saturated to the negative of the maximum value.

Parameters

| in | ref | The reference value to saturate. |
|----|-----|-------------------------------------------|
| in | max | The maximum allowed value for saturation. |

Returns

The saturated reference value.

Here is the caller graph for this function:



4.32.2.4 set_torque_direction()

Set torque direction based on inverter direction.

This function adjusts the torque reference based on the desired direction. If the motor is set to rotate counterclockwise (CCW), positive torque represents traction, negative is braking. If the motor is set to rotate clockwise (CW), negative torque represents traction, positive is braking.

Parameters

| in | torque <i>⊷</i> RefIn | The torque reference value to adjust. |
|----|--------------------------|------------------------------------------------------------------|
| in | direction | Pointer to the direction of the inverter (1 for CW, -1 for CCW). |

Returns

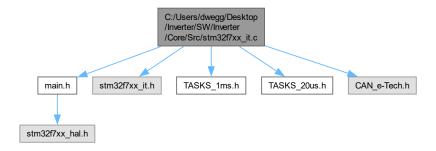
torqueRefOut The adjusted torque reference value.

4.33 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/stm32f7xx← it.c File Reference

Interrupt Service Routines.

```
#include "main.h"
#include "stm32f7xx_it.h"
#include "TASKS_1ms.h"
#include "TASKS_20us.h"
#include "CAN_e-Tech.h"
```

Include dependency graph for stm32f7xx_it.c:



Functions

· void NMI Handler (void)

This function handles Non maskable interrupt.

void HardFault Handler (void)

This function handles Hard fault interrupt.

void MemManage_Handler (void)

This function handles Memory management fault.

void BusFault_Handler (void)

This function handles Pre-fetch fault, memory access fault.

void UsageFault_Handler (void)

This function handles Undefined instruction or illegal state.

void SVC_Handler (void)

This function handles System service call via SWI instruction.

void DebugMon_Handler (void)

This function handles Debug monitor.

void PendSV_Handler (void)

This function handles Pendable request for system service.

void SysTick_Handler (void)

This function handles System tick timer.

• void CAN1_RX0_IRQHandler (void)

This function handles CAN1 RX0 interrupts.

void TIM1_UP_TIM10_IRQHandler (void)

This function handles TIM1 update interrupt and TIM10 global interrupt.

void TIM6_DAC_IRQHandler (void)

This function handles TIM6 global interrupt, DAC1 and DAC2 underrun error interrupts.

void DMA2 Stream0 IRQHandler (void)

This function handles DMA2 stream0 global interrupt.

void DMA2_Stream1_IRQHandler (void)

This function handles DMA2 stream1 global interrupt.

void DMA2_Stream2_IRQHandler (void)

This function handles DMA2 stream2 global interrupt.

Variables

- DMA_HandleTypeDef hdma_adc1
- DMA_HandleTypeDef hdma_adc2
- DMA HandleTypeDef hdma adc3
- CAN_HandleTypeDef hcan1
- DAC_HandleTypeDef hdac
- TIM_HandleTypeDef htim1
- TIM_HandleTypeDef htim6

4.33.1 Detailed Description

Interrupt Service Routines.

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4.33.2 Function Documentation

4.33.2.1 BusFault_Handler()

This function handles Pre-fetch fault, memory access fault.

4.33.2.2 CAN1_RX0_IRQHandler()

This function handles CAN1 RX0 interrupts.

Here is the call graph for this function:



4.33.2.3 DebugMon_Handler()

This function handles Debug monitor.

4.33.2.4 DMA2 Stream0 IRQHandler()

This function handles DMA2 stream0 global interrupt.

4.33.2.5 DMA2_Stream1_IRQHandler()

This function handles DMA2 stream1 global interrupt.

4.33.2.6 DMA2 Stream2 IRQHandler()

```
void DMA2_Stream2_IRQHandler ( \label{eq:poid} \mbox{void} \ \ )
```

This function handles DMA2 stream2 global interrupt.

4.33.2.7 HardFault_Handler()

This function handles Hard fault interrupt.

4.33.2.8 MemManage_Handler()

This function handles Memory management fault.

4.33.2.9 NMI_Handler()

```
void NMI_Handler (
     void )
```

This function handles Non maskable interrupt.

4.33.2.10 PendSV_Handler()

```
void PendSV_Handler (
     void )
```

This function handles Pendable request for system service.

4.33.2.11 SVC_Handler()

```
void SVC_Handler (
     void )
```

This function handles System service call via SWI instruction.

4.33.2.12 SysTick_Handler()

```
void SysTick_Handler (
     void )
```

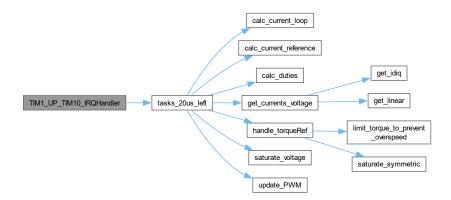
This function handles System tick timer.

4.33.2.13 TIM1_UP_TIM10_IRQHandler()

```
void TIM1_UP_TIM10_IRQHandler ( void \quad )
```

This function handles TIM1 update interrupt and TIM10 global interrupt.

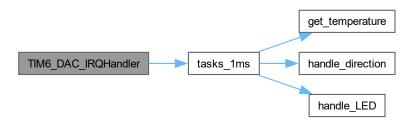
Here is the call graph for this function:



4.33.2.14 TIM6_DAC_IRQHandler()

This function handles TIM6 global interrupt, DAC1 and DAC2 underrun error interrupts.

Here is the call graph for this function:



4.33.2.15 UsageFault_Handler()

This function handles Undefined instruction or illegal state.

4.33.3 Variable Documentation

4.33.3.1 hcan1

```
CAN_HandleTypeDef hcan1 [extern]
```

4.33.3.2 hdac

```
DAC_HandleTypeDef hdac [extern]
```

4.33.3.3 hdma_adc1

```
DMA_HandleTypeDef hdma_adc1 [extern]
```

4.33.3.4 hdma_adc2

```
DMA_HandleTypeDef hdma_adc2 [extern]
```

4.33.3.5 hdma_adc3

```
DMA_HandleTypeDef hdma_adc3 [extern]
```

4.33.3.6 htim1

```
TIM_HandleTypeDef htim1 [extern]
```

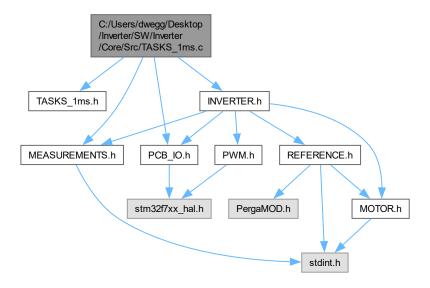
4.33.3.7 htim6

TIM_HandleTypeDef htim6 [extern]

4.34 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/TASKS_← 1ms.c File Reference

This file contains functions to execute tasks every 1ms.

```
#include "TASKS_1ms.h"
#include "PCB_IO.h"
#include "INVERTER.h"
#include "MEASUREMENTS.h"
Include dependency graph for TASKS_1ms.c:
```



Functions

void tasks_1ms (void)

Function to be executed every 1ms.

4.34.1 Detailed Description

This file contains functions to execute tasks every 1ms.

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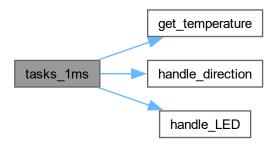
4.34.2 Function Documentation

4.34.2.1 tasks_1ms()

```
void tasks_1ms (
     void )
```

Function to be executed every 1ms.

This function is called by the TIM6 IRQ handler every millisecond. It increments the millisecond counter and executes all the low priority tasks. Here is the call graph for this function:



Here is the caller graph for this function:

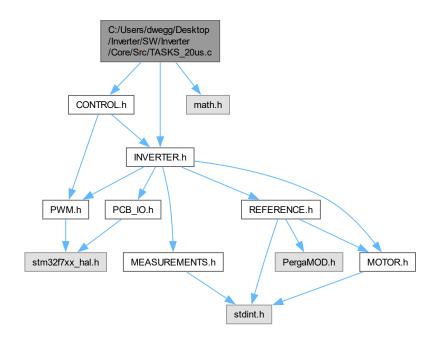


4.35 C:/Users/dwegg/Desktop/Inverter/SW/Inverter/Core/Src/TASKS_← 20us.c File Reference

This file contains functions executed every 20us in each PWM timer interruption.

```
#include "CONTROL.h"
#include "INVERTER.h"
#include <math.h>
```

Include dependency graph for TASKS_20us.c:



Functions

- void tasks_20us_left (void)
 - Function to be executed every TS.
- void tasks_20us_right (void)

Function to be executed every TS.

Variables

- float vd_left = 0.0F
- float vq_left = 7.5F
- float vDC left = 15.0F
- float torqueRefIn_left = 0.0F
- uint32_t start_ticks = 0
- uint32_t elapsed_ticks = 0
- angle_struct angle_left
- · rampa_struct freqRamp_left

4.35.1 Detailed Description

This file contains functions executed every 20us in each PWM timer interruption.

Attention

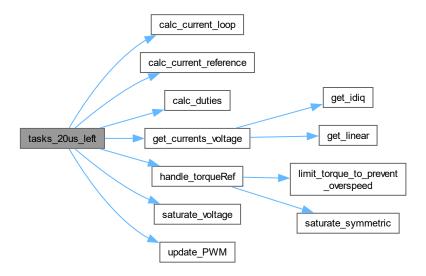
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4.35.2 Function Documentation

4.35.2.1 tasks_20us_left()

Function to be executed every TS.

This function is called by the TIM1 trigger handler every TS. Here is the call graph for this function:



Here is the caller graph for this function:



4.35.2.2 tasks_20us_right()

Function to be executed every TS.

This function is called by the TIM8 trigger handler every TS.

4.35.3 Variable Documentation

4.35.3.1 angle_left

```
angle_struct angle_left
```

Initial value:

```
= {
    .freq = 0.0F,
    .Ts = TS,
}
```

4.35.3.2 elapsed_ticks

```
uint32\_t elapsed\_ticks = 0
```

4.35.3.3 freqRamp_left

4.35.3.4 start_ticks

```
uint32\_t start\_ticks = 0
```

4.35.3.5 torqueRefIn_left

```
float torqueRefIn_left = 0.0F
```

4.35.3.6 vd_left

```
float vd_left = 0.0F
```

4.35.3.7 vDC_left

```
float vDC_left = 15.0F
```

4.35.3.8 vq_left

```
float vq_left = 7.5F
```

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