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| File name | Function | Difficult(1 - 10) |
| Temperature.cpp | Void disable\_heater() | 1 |
|  | Static void  updateTemperaturesFromRawValues() | 2 |
|  | Void PID\_autotune() | 4 |
|  | Void updatePID() | 1 |
|  | Int getHeaterPower(int heater) | 1 |
|  | Void  setExtruderAutoFanState(int pin,  bool state) | 2 |
|  | Void checkExtruderAutoFans() | 1 |
|  | Void manage\_heater() | 5 |
|  | Static float analog2temp(int raw,int e) | 6 |
|  | Static float analog2tempBed(int raw) | 6 |
|  | Void tp\_init() | 3 |
|  | Void setWatch() | 1 |
|  | Void max\_temp\_error() | 1 |
|  | Void min\_temp\_error() | 1 |
|  | Void bed\_max\_temp\_error() | 1 |
|  | Int read\_max6675() | 3 |
|  | ISR | 6 |
|  | Float scalePID\_i(float i) | 1 |
|  | Float unscalePID\_i(float i) | 1 |
|  | Float scalePID\_d(float d) | 1 |
|  | Float unscalePID\_d(float d) | 1 |
| ConfigurationStore.cpp | Void  \_EEPROM\_writeData(int &pos,uint8\_t\* value,uint8\_t size) | 2 |
|  | Void  \_EEPROM\_readData(int &pos,uint8\_t\* value,uint8\_t size) | 2 |
|  | Void Config\_ResetDefault() | 3 |
| BlinkM.cpp | Void  SendColors  (byte red,byte grn,byte blu) | 2 |
| Montion\_control.cpp | Void mc\_arc  (float \*position, float \*target,  float \*offset, uint8\_t axis\_0,  uint8\_t axis\_1, uint8\_t axis\_linear,  float feed\_rate, float radius,  uin8\_t isclockwise, uint8\_t extruder) | 10 |
| Stepper.cpp | Void checkHitEndstops() | 1 |
|  | Void endstops\_hit\_on\_purpose() | 1 |
|  | Void enable\_endstops() | 1 |
|  | Void st\_wake\_up() | 1 |
|  | Void step\_wait() | 1 |
|  | Unsigned short calc\_timer  (unsigned short step\_rate) | 6 |
|  | Void  Trapezoid\_generator\_reset() | 3 |
|  | ISR | 8 |
|  | Void st\_init() | 4 |
|  | Void st\_synchronize() | 10 |
|  | Void st\_set\_position(const long &x,  Const long &y, const long &z,  Const long &e) | 4 |
|  | Void st\_set\_e\_position(const long &e) | 1 |
|  | Long st\_get\_position(uint8\_t axis) | 1 |
|  | Void finishAndDisableSteppers() | 2 |
|  | Void quickStop() | 2 |
|  | Void digipot\_init() | 4 |
|  | Void digipot\_current(uint8\_t driver,  Int current) | 3 |
|  | Void microstep\_init() | 2 |
|  | Void microstep\_ms(uint8\_t driver,  Int8\_t ms1, int8\_t ms2) | 2 |
|  | Void microstep\_mode(uint8\_t driver,  Uint8\_t stepping\_mode) | 2 |
|  | Void microstep\_readings() | 1 |
| Planner.cpp | Static int8\_t next\_block\_index(  int8\_t block\_index) | 1 |
|  | Static int8\_t prev\_block\_index(  Int8\_t block\_index) | 1 |
|  | Float  Estimate\_acceleration\_distance  (float initial\_rate, float target\_rate,  Float acceleration) | 2 |
|  | Float intersection\_distance  (float initial\_rate, float final\_rate,  Float acceleration,  Float distance) | 2 |
|  | Void  Calculate\_trapezoid\_for\_block  (block\_t \*block, float entry\_factor,  Float exit\_factor) | 7 |
|  | Float max\_allowable\_speed  (float acceleration,  Float target\_velocity,  Float distance) | 2 |
|  | Void  Planner\_reverse\_pass\_kernel  (block\_t \*previous,  Block\_t \*current,  Block\_t \*next) | 4 |
|  | Void planner\_reverse\_pass() | 5 |
|  | Void planner\_forward\_pass\_kernel  (block\_t \*previous,  Block\_t \*current,  Block\_t \*next) | 4 |
|  | Void planner\_forward\_pass() | 3 |
|  | Void planner\_recalculate\_trapezoids() | 6 |
|  | Void planner\_recalculate() | 3 |
|  | Void plan\_init() | 1 |
|  | void getHighESpeed() | 6 |
|  | Void check\_axes\_activity() | 4 |
|  | Void plan\_buffer\_line() | 6 |
|  | Void plan\_set\_position  (const float &x,  Const float &y,  Const float &z,  Const float &e) | 3 |
|  | Void plan\_set\_e\_position(const float &e) | 2 |
|  | Uint8\_t movesplanned() | 2 |
|  | Void set\_extrude\_min\_temp(  Float temp) | 4 |
|  | Void reset\_acceleration\_rates() | 2 |