```c
1  /**
2   * \file api.h
3   *
4   * PROS API header provides high-level user functionality
5   *
6   * Contains declarations for use by typical VEX programmers using PROS.
7   *
8   * This file should not be modified by users, since it gets replaced whenever
9   * a kernel upgrade occurs.
10  *
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12  * All rights reserved.
13  *
14  * This Source Code Form is subject to the terms of the Mozilla Public
15  * License, v. 2.0. If a copy of the MPL was not distributed with this
16  * file, You can obtain one at http://mozilla.org/MPL/2.0/.
17  */
18
19 #ifndef _PROS_API_H_
20 #define _PROS_API_H_
21
22 #ifdef __cplusplus
23 #include <cerrno>
24 #include <cmath>
25 #include <cstdbool>
26 #include <cstddef>
27 #include <cstdint>
28 #include <cstdio>
29 #include <cstdlib>
30 #include <iostream>
31 #else /* (not) __cplusplus */
32 #include <errno.h>
33 #include <math.h>
34 #include <stdbool.h>
35 #include <stddef.h>
36 #include <stdint.h>
37 #include <stdio.h>
38 #include <stdlib.h>
39 #include <unistd.h>
40 #endif /* __cplusplus */
41
42 #define PROS_VERSION_MAJOR 3
43 #define PROS_VERSION_MINOR 5
44 #define PROS_VERSION_PATCH 4
45 #define PROS_VERSION_STRING "3.5.4"
46
47 #define PROS_ERR (INT32_MAX)
48 #define PROS_ERR_F (INFINITY)
49
50 #include "pros/adi.h"
51 #include "pros/colors.h"
52 #include "pros/distance.h"
53 #include "pros/ext_adi.h"
54 #include "pros/gps.h"
55 #include "pros/imu.h"
56 #include "pros/llemu.h"
57 #include "pros/misc.h"
```

```
58 #include "pros/motors.h"
59 #include "pros/optical.h"
60 #include "pros/rtos.h"
61 #include "pros/rotation.h"
62 #include "pros/screen.h"
63 #include "pros/vision.h"
64
65 #ifdef __cplusplus
66 #include "pros/adi.hpp"
67 #include "pros/distance.hpp"
68 #include "pros/gps.hpp"
69 #include "pros/imu.hpp"
70 #include "pros/llemu.hpp"
71 #include "pros/misc.hpp"
72 #include "pros/motors.hpp"
73 #include "pros/optical.hpp"
74 #include "pros/rotation.hpp"
75 #include "pros/rtos.hpp"
76 #include "pros/screen.hpp"
77 #include "pros/vision.hpp"
78 #endif
79
80 #endif  // _PROS_API_H_
```