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// Type definitions for [~THE LIBRARY NAME~] [~OPTIONAL VERSION NUMBER~]
// Project: [~THE PROJECT NAME~]
// Definitions by: [~YOUR NAME~] <[~A URL FOR YOU~]>
/*~ If this library is callable (e.g. can be invoked as myLib(3)),
*~ include those call signatures here.
*~ Otherwise, delete this section.
declare function myLib(a: string): string;
declare function myLib(a: number): number;
/*~ If you want the name of this library to be a valid type name,
*~ you can do so here.
*~
*~ For example, this allows us to write 'var x: myLib';
*~ Be sure this actually makes sense! If it doesn't, just
 \star\sim delete this declaration and add types inside the namespace below.
*/
interface myLib {
   name: string;
   length: number;
   extras?: string[];
/*~ If your library has properties exposed on a global variable,
*~ place them here.
 *~ You should also place types (interfaces and type alias) here.
 * /
declare namespace myLib {
   //~ We can write 'myLib.timeout = 50;'
   let timeout: number;
   //~ We can access 'myLib.version', but not change it
   const version: string;
    //~ There's some class we can create via 'let c = new myLib.Cat(42)'
    //~ Or reference e.g. 'function f(c: myLib.Cat) { ... }
    class Cat {
        constructor(n: number);
        //~ We can read 'c.age' from a 'Cat' instance
        readonly age: number;
        //~ We can invoke 'c.purr()' from a 'Cat' instance
        purr(): void;
    }
    //\sim We can declare a variable as
    //~ 'var s: myLib.CatSettings = { weight: 5, name: "Maru" };'
    interface CatSettings {
       weight: number;
       name: string;
       tailLength?: number;
    //~ We can write 'const v: myLib.VetID = 42;'
    //~ or 'const v: myLib.VetID = "bob";'
    type VetID = string | number;
```

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//~ We can invoke 'myLib.checkCat(c)' or 'myLib.checkCat(c, v);'
function checkCat(c: Cat, s?: VetID);
```