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OBJECTIVE QUESTIONS

TypeScript Assessment

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Question 1

Predict the output for the below code:

```
const alterEgo = "Slade Wilson";
function outerFunction()
{
    let alterEgo = "Wade Wilson";
    setTimeout(
        function(){
            alert(alterEgo);
        },2000);
}
outerFunction();
```

- Slade Wilson
- Wade Wilson
- Error in line 4
- Error in line 2



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Question 1

Find the output for the below code:

```
function invoke(constructor:Function) {
    var newconstructor : any = function (...args) {
        this.alterEgo="Bruce Wayne";
    }
    return newconstructor;
}
@invoke
class Product {
    public alterEgo: string;
    constructor(data: string) {
        this.alterEgo = data;
    }
}
var p = new Product("Dark Knight");
alert(`Product name is : ${p.alterEgo}`);
```



- Dark Knight
- Product name is : Bruce Wayne
- Error : cannot access class-property outside the class

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```
5.     interface b
6.     {
7.         age: number;
8.     }
9.     interface c extends a,b
10.    {
11.        cash: number;
12.    }
13.    class ab implements a,b
14.    {
15.        cash = 2000;
16.        name = "Barry";
17.        age = 20;
18.        public a = () => alert(this.cash +" was the amount "+this.name+" had when he was "+ this.age);
```

- 2000 was the amount Barry had when he was 20
- We can't implement more two classes
- We have to use extends keyword
- There is an error in line 18

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OBJECTIVE QUESTIONS

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Question 12

What will be the most appropriate output for the following?

```
enum defaultPrice {Single=1000,Double=2000,Triple=3000 }
enum cost { Red = defaultPrice.Single, Green=Blue, Blue = defaultPrice.Double+defaultPrice.Triple, White=defaultPrice.Triple }
var price=cost.Blue;
```

- Compilation Error : You cannot reference members initialized in one enum declaration inside another enum declaration
- Compilation Error : A member initializer in a enum declaration cannot reference members declared after it.
- Both the errors
- No errors

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OBJECTIVE QUESTIONS

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Question 20

Predict output for the below code:

```
const a: string[] =["Rajendra Prasad", "Sarvepalli Radhakrishnan"];
function fun() {
    setTimeout(() => {
        var a = ["Abdul Kalam", "Pratibha Patil", "Pranab Mukherjee"];
    }, 10);
}
fun();
a.push("Ram Nath Kovind");
alert(a);
```

- error:a cannot be reinitialized since it is a constant
- Rajendra Prasad,Sarvepalli Radhakrishnan,Ram Nath Kovind
- Abdul Kalam,Pratibha Patil,Pranab Mukherjee,Ram Nath Kovind
- Rajendra Prasad,Sarvepalli Radhakrishnan,Abdul Kalam,Pratibha Patil,Pranab Mukherjee,Ram Nath Kovind

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OBJECTIVE QUESTIONS

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Question 7

What will be the output for the following code?

```
function fun(contact:number,name?:string,defaultName:string="Usopp",...restName:string[])
{
    alert("defaultName has: "+defaultName);
}
fun(1234567891,undefined,"Luffy", "Zoro", "Nami", "Sanji");
```

- defaultName has: Luffy
- undefined
- Zoro
- Usopp

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OBJECTIVE QUESTIONS

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Question 4

Which of the following line/lines will lead to compilation error/errors?

```
var a: [string, number];
1. a = ["Stephen Strange", null, "Tony Stark", 2, 6];
2. a = ["Stephen Strange", undefined, "Tony Stark", 2, 6];
3. a = [undefined, "Tony Stark", 2, "Stephen Strange"];
4. a = [null,null,4, "Tony Stark", 2, 6];
```

- 1, 2 and 4
- 1 and 4
- 2 and 3
- Only 3



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OBJECTIVE QUESTIONS

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Question 4

Choose an appropriate answer in order to execute the below code without any error:

```
function fun(a){  
    alert("List: "+a);  
}  
  
fun("Sherlock", "Dr.Watson", "Inspector Lestrade");  
fun("Irene Adler");  
fun();
```

- a should be a rest parameter of string[] type
- a should be an Array of strings
- a can be a rest parameter or an array of strings
- None of the options

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```
2.      var1: string;
3.  }
4.  interface b{
5.      var2: string;
6.  }
7.  function fun1(para1: a){
8.      alert("Inside fun1");
9.  }
10.  function fun2(para2: b){
11.      alert("Inside fun2");
12.  }
13.  var obj = { var1: "for a", var2: "for b" };
14.  fun1(obj);
15.  fun2(obj);
```

- Line 14 will get compilation error
- Line 15 will get compilation error
- Both 14 and 15 will get compilation error
- No error

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OBJECTIVE QUESTIONS

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Question 9

Assume the below code is saved in a file "a.ts". Which is the most appropriate option to be added to make it work?

```
class product
{
    prodId: number;
    prodName: string;
}

namespace a{
export let obj=new amazon()
}

obj.prodName = "Coffee Mug";
```

- Add ///<reference path="a.ts"/>
- Add import { obj } from "a"
- Modify last line as a.obj.prodName = "Coffee Mug";
- All of these

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OBJECTIVE QUESTIONS

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```
}
```

}

```
export const identity:string="EMPLOYEE";
export {Utility as mainUtility};
```

file.ts:

```
import * as mainutil from "./module";
```

```
let util =new mainutil.mainUtility();
let emp=util.setId("JAS",753886);
```

```
console.log(`${emp} is an ${mainutil.identity}`);
```

- JA\$ 753886 is an EMPLOYEEC
- Error : mainutil is not defined in module.ts
- Error : mainUtility is not defined in module.ts
- Error : cannot use export block for classes

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Question 10

What will be the output for the below code?

```
var var1 = 20;
function fun()
{
    var1 = 21;
    var a = () => {var var1=40 };
    a();
}
```

```
fun();
alert(var1);
```

- 20
- 21
- 40
- Error: cannot redeclare var1

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OBJECTIVE QUESTIONS

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Question 25

Predict the output for the below code:

```
let list:any = ["One", "Two", "Three", "Four"];
list.push(list.splice(-4, 2));
alert(list);
```

- Three, Four, One, Two
- Four, One, Two, Three
- One, Two, Three, Four
- Error : Array out of bounds

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OBJECTIVE QUESTIONS

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Question 4

Which line from the below code is erroneous in a type definition file?

```
1. declare class Author {  
2.     declare function getBookspublished(): string;  
3. }  
4. declare function getAuthor():Author;
```

- Line 1
- Line 2
- Line 4
- None of the lines

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OBJECTIVE QUESTIONS

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Question 22

What will be the output for the below code?

```
class A{  
    printData<T>(data: T): T{  
        if (data == "Barry Allen")  
            alert("Data Received");  
        return data;  
    }  
}  
  
let obj = new A();  
let data:string=obj.printData<string>('Barry Allen');
```

- Data Received
- Error : Cannot have generic functions inside a non-generic class
- Error : Operator '==' cannot be applied to types 'T' and 'string'  
    ↳
- Both the above mentioned errors will occur

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OBJECTIVE QUESTIONS

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Question 1

Predict the output for the below code:

```
class Friends <T>{
    characterList:Array<T>;
    addCharacter(newCharacterList:Array<T>):void{
        this.characterList=newCharacterList;
        alert(characterList);
    }
}
let show=new Friends<string>();
let characterList:Array<string>=["Chandler","Monica","Joe","Rachel","Ross"];
show.addCharacter(characterList);

let show2=new Friends<number>();
let seasons:Array<number>=[1,2,3,4,5,6,7,8,9,10];
show2.addCharacter(seasons);
```

- Chandler,Monica,Joe,Rachel,Ross
- Chandler,Monica,Joe,Rachel,Ross 1,2,3,4,5,6,7,8,9,10
- 1,2,3,4,5,6,7,8,9,10 1,2,3,4,5,6,7,8,9,10

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```
class b implements a{
    a:string;
    constructor()
    {
        this.a="Success!";
    }
    fun()
    {
        return this.a;
    }
}
let obj = new b;
console.log(obj.fun());
```

- Success!
- Cannot implement interface with an abstract function
- Error : class b has to define function fun inside the constructor
- Error : 'abstract' modifier cannot appear on a type member

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OBJECTIVE QUESTIONS

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  - 24

```
}
```

```
class b extends a
{
    fun(str: string): string{
        super.fun(str);
        return str+" from b";
    }
}

let obj = new b();
var disp:string = obj.fun("Hello");
alert(disp);
```

- Hello from a
- Hello from b
- Hello from a and b
- Error : Duplicate function implementation

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OBJECTIVE QUESTIONS

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Question 1

What will be the output for the following?

```
enum cost { Blue = 5000, Green = Blue, Red = Blue+2500, White = Green , Black=2000 };  
console.log(cost[5000]);
```

- Blue
- Green
- White
- Compilation Error : You cannot reference members initialized in one enum declaration inside another enum declaration.

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OBJECTIVE QUESTIONS

TypeScript Assessment

Question 1

Predict the output of the below code:

```
function changeNationality(data: string): string{
    nationality += " " + data;
    return nationality;
}
var nationality = "Indian";
var nationality = changeNationality("Canadian");
alert(nationality);
```

- Indian
- Undefined Canadian
- Indian Canadian
- Error in line 2 since initialization of nationality is after the function

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OBJECTIVE QUESTIONS

Question 14

What will be the output for the below code?

```
let ceoList: string[]=[];  
ceoList["XYZ"] = "Tim";  
ceoList["ABC"] = "Tom";  
ceoList["TEST"] = "Joe"  
ceoList["TEXT"]="John"  
alert("Length : " + ceoList.length);  
alert("Ceo of XYZ: " + ceoList["XYZ"]);
```

- Length : 4 Ceo of XYZ: Tim
- Length : 0 Ceo of XYZ: Tim
- Length : 0 Ceo of XYZ: Undefined
- Length : 4 Ceo of XYZ: Undefined

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Question 13

Consider you are using a tsconfig.json file. The ts files are stored in a folder named ts. tsconfig.json is stored outside the ts folder. Which compiler option is best suited to read the ts files from the folder while transpiling?

- rootDir
- outDir
- sourceDir
- None of the options

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Finish Test

← OBJECTIVE QUESTIONS

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```
1. class company{  
2.     static empId:number=753800;  
3.     private _eta: boolean;  
4.     private _production: boolean;  
5.     constructor(){  
6.         this.empId++;  
7.         this._eta = false;  
8.         this._production = false;  
9.     }  
10.    }  
11.    var emp1=new company();  
12.    var emp1 = new company();  
13.    let emp2 = new company();  
14.    alert(emp2.empId);
```

- Line 6 alone
- Line 12 alone
- Line 6 and 14
- Line 6, 12 and 14

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OBJECTIVE QUESTIONS

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Please enter a comment in the below code.

```
1. class a{  
2.     parent: string = "From Parent";  
3. }  
4. interface b{  
5.     fromInterface: number;  
6. }  
7. class c implements b extends a {  
8.     fromInterface = 20;  
9.     para = () => {  
10.         console.log(this.parent);  
11.     }  
12. }  
13. new c().para();
```

- Lines 7 and 10 will cause errors
- Line 7 alone causes error because `extends` clause must precede `implements` clause
- Line 7 alone causes error because we can't use `implements` clause and `extends` clause together with a single class
- Line 10 alone causes error because we need to call using `super.parent`

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OBJECTIVE QUESTIONS

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Question 9

Predict the output for the below code:

```
function fun(str: string):number{
    return 42;
}

function fun(num: number): string{
    return "hello! "+num;
}

let d: string = "hello!";
var disp:number = fun(d);
console.log(disp);
```

- 42
- hello 42
- hello undefined
- Error: Duplicate function implementation

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## QUESTION 2

Predict output for the below code:

```
const a: string[] =["Rajendra Prasad", "Sarvepalli Radhakrishnan"];
function fun() {
    setTimeout(() => {
        var a = ["Abdul Kalam", "Pratibha Patil", "Pranab Mukherjee"];
    }, 10);
}
fun();
a.push("Ram Nath Kovind");
alert(a);
```

- error:a cannot be reinitialized since it is a constant
- Rajendra Prasad,Sarvepalli Radhakrishnan,Ram Nath Kovind
- Abdul Kalam,Pratibha Patil,Pranab Mukherjee,Ram Nath Kovind
- Rajendra Prasad,Sarvepalli Radhakrishnan,Abdul Kalam,Pratibha Patil,Pranab Mukherjee,Ram Nath Kovind

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## Question 1

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Predict the output for the below code:

```
function fun(str: string):number{
    return 42;
}

function fun(num: number): string{
    return "hello! "+num;
}

let d: string = "hello!";
var disp:number = fun(d);
console.log(disp);
```

- 42
- hello 42
- hello undefined
- Error: Duplicate function implementation

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**Question 2**

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Predict output for the below code:

```
const a: string[] =["Rajendra Prasad", "Sarvepalli Radhakrishnan"];
function fun() {
    setTimeout(() => {
        var a = ["Abdul Kalam", "Pratibha Patil", "Pranab Mukherjee"];
    }, 10);
}
fun();
a.push("Ram Nath Kovind");
alert(a);
```

- error:a cannot be reinitialized since it is a constant
- Rajendra Prasad,Sarvepalli Radhakrishnan,Ram Nath Kovind
- Abdul Kalam,Pratibha Patil,Pranab Mukherjee,Ram Nath Kovind
- Rajendra Prasad,Sarvepalli Radhakrishnan,Abdul Kalam,Pratibha Patil,Pranab Mukherjee,Ram Nath Kovind

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**Save**