Coercion [Basic - Advance] Interview Questions					
COUNT: 20					
Question	Level	Туре	Solution		
onsole.log(+true); console.log(!"Javascript");	Basic	Urinary Operator Logical Operator	Output: 1, false Reason: + will try to convert it to number and! will try to convert it into a boolean value		
2. const num = 10; const num_1 = new Number(10); const num_2 = 10; console.log(num == num_1) console.log(num === num_1)	Basic	Constructor Function	Output: true, false Reason: Since its a abstract equaltiy in first case, Js will try to do coercion, i.e non-primitive to primitve value resulting in true. Whereas in second case, because of strict equality since type and value are not consistent. It will result false. NOTE: typeof new Number(10) is "object"		
function sum (a, b) { return a + b; } console.log(sum (10, "10"))	Basic	String Concatination	Output: "1010" Reason: String concatination is happening as one of the operand is a string.		
4. console.log(10 + 20 + '10'); console.log(parseInt('10 + a'));	Basic	String Concatination	Output: '3010', 10 Reason: Js precedence will go from right to left. Hence 10 + 20> 30 + '10'> '3010' b. parseInt will look for number in the start until it finds any invalid string that can't be coerced.		
99["toString"].length + 1	Advance	toString Implementation	Output: 2 Reason: Here, we are not calling to String method, Hence it will be like function.length which will gives the number of argument it accept. And bydefault to String (radix) accept 1 argument Hence 1 + 1 = 2		
oonst str = new String("JS"); console.log(str === "JS"); console.log(str == "JS");	Intermediate	new String () Implementation	Output: false, true Reason: as string created with new result in Object Hence === gives false, while == gets coerced.		

07.			Output: true, true
console.log(false == []); console.log(false == ![]);	Intermediate	Array values type	Reason: Empty array corrosponds to truthy value Also, when in first case when false == [] , The comparison operator will convert the [] to "" empty string. Hence false == "" will comes to be true, as empty string is a falsey value. Now since the types are different i.e false == "" They will be converted to number i.e Boolean(false) and Boolean("). Both will result in 0 And finally 0 == 0 will be true.
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08. console.log(undefined.toString()) console.log(null.valueOf())	Advance	Туреѕ	Output: TypeError Reason: Not everything in Js is objects.
09.			Output: 0, NaN
const num1 = Number(); const num2 = Number(undefined); console.log(num1, num2);	Intermediate	Number() works	Reason: By default if no argument is passed in Number() it returns 0 and if you try to convert undefined to number it will give NaN as mentioned in specs.
10.			Output: '511', 52
let age = '51'; let age2 = '51'; age+= 1; age2++; console.log(age, age2)	Intermediate	post increment, string	Reason: when you add a string to a number it will give string only i.e '51' + 1 will give '511' Wheras postincrement on string will give a number
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11. console.log(1 + +"2" + 3);	Beginner	Number()	Output: "33" Reason: +"2" will convert it to number 2 Hence 1 + 2 = 3 then 3 + "3" = 33
12.			Output: true
console.log("" == []);	Intermediate	How array transform	Reason: Coercion of an empty array will be empty string Hence, "" == "" will corrosponds to false == false which comes out to be true
12			Output: NaN
13. const obj = { x: 10, valueOf () { } } console.log(10 - obj)	Advance	ToPrimitive Algorithum Subtract Operation calls hint with "number"	Reason: The valueOf is returning undefined, and hence 10 - undefined will result in NaN
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14. const obj = { toString() { return 5 }, valueOf() { return {} } } console.log(9 - obj);	Advance	ToPrimitive Algorithum Subtract Operation calls hint with "number"	Output: 4 Reason: toString() returns 5 Hence 9 - 5 is 4 NOTE: valueOf will be called first, but since it returns object i.e non-primitve value the Js will toString, as it looks for a primitve value
15. const obj = { toString() { return { } }, valueOf() { return { } } } console.log(10 - obj);	Advance	ToPrimitive Algorithum Subtract Operation calls hint with "number"	Output: TypeError [Can't convert object to primitive value] Reason: As both toString and valueOf returns an object It throws TypeError
16. const obj = { }; console.log("100" + obj); console.log(100 + obj); console.log(obj - 100);	Advance	ToPrimitive Algorithum Addition Operation calls with no hint	Ouput: "100[object Object]" , "100[object Object]", NaN Reason: In addition it will simply concatinate whereas in subtraction it will result in NaN
17. console.log(Number(" "));	Medium	Explicit Number () Type Conversion	Ouput: 0 Reason: The string will get trimmed from right and left by js resulting in empty string
18. console.log("2" > "12");	Medium	Comparison Operator Rules	Output: true Reason: Here both are of same type, hence none of them get converted to number, Js basically use the lexo graphical algorithum for string to check which one is greater.
19. console.log(null == 0); console.log(null == undefined); console.log(undefined == NaN) console.log(NaN == 0)	Advance	Sweet Couple	Output: false, true, false, false Reason: null and undefined are called sweet couple. They equal only each other and to no other value. Similary NaN is special type which doesn't equal anything Not to even itself!
20. console.log(" -9 " - 2); console.log(undefined + 1); console.log(" \t \n " - 2)	Advance	ToNumber Abstract Operation	Output: -11 , NaN , -2 Reason: subtraction always convert to number, removing white spaces from start and end! Whereas if it was + the trimming will not occur in above cases. Try and see it for yourself!