

Online Java Compiler IDE

For Multiple Files, Custom Library and File Read/Write, use our new - Advanced Java IDE

```
// A simple java program to find maximum score that
    // maximizing player can get.
    import java.io.*;
    public class GFG {
 9
    // Returns the optimal value a maximizer can obtain.
    // depth is current depth in game tree.
10
    // nodeIndex is index of current node in scores[].
    // isMax is true if current move is of maximizer, else false
    // scores[] stores leaves of Game tree.
    // h is maximum height of Game tree
15
    static int minimax(int depth, int nodeIndex, boolean isMax,
16
                 int scores[], int h)
17
18
         // Terminating condition. i.e leaf node is reached
19
         if (depth == h)
20
             return scores[nodeIndex];
21
        // If current move is maximizer, find the maximum attainable
22
23
         // value
        if (isMax)
24
25
        return Math.max(minimax(depth+1, nodeIndex*2, false, scores, h),
                 minimax(depth+1, nodeIndex*2 + 1, false, scores, h));
26
27
28
        // Else (If current move is Minimizer), find the minimum
29
        // attainable value
30
        else
31
            return Math.min(minimax(depth+1, nodeIndex*2, true, scores, h),
32
                 minimax(depth+1, nodeIndex*2 + 1, true, scores, h));
33
34
35
    // A utility function to find Log n in base 2
36
    static int log2(int n)
37
38
    return (n==1)? 0 : 1 + log2(n/2);
39
    }
40
41
    // Driver code
42
        public static void main (String[] args) {
43
44
                 // The number of elements in scores must be
45
        // a power of 2.
46
        int scores[] = {3, 5, 2, 9, 12, 5, 23, 23};
47
        int n = scores.length;
        int h = log2(n);
        int res = minimax(0, 0, true, scores, h);
        System.out.println( "The optimal value is : " +res);
51
52
        }
53
    }
55
    // This code is contributed by vt_m
```

CommandLine Arguments		
Stdin Inputs		
		//

Result

CPU Time: 0.10 sec(s), Memory: 33572 kilobyte(s)

compiled and executed in 0.604 sec(s)

The optimal value is : 12

Note:

- 1. For file operations upload files using upload button . Files will be upload to /uploads folder. You can read those files in program from /uploads folder. To write a file from your program, write files to '/myfiles' folder. Please note the uploaded files stored in the server only for the current session.
- 2. For detailed documentation check Our Documentation, or check our Youtube channel.

Thanks for using our

Online Java Compiler IDE

to execute your program





Know Your JDoodle

- JDoodle Supports 76+ Languages with Multiple Versions and 2 DBs. Click here to see all.
- Fullscreen side-by-side code and output is available. click the "[]" icon near execute button to switch.

JDoodle For Your Organisation

- Do you have any specific compiler requirements?
- Do you want to integrate compilers with your website, webapp, mobile app, courses?

- Dark Theme available. Click on "•••" icon near execute button and select dark theme.
- You can embed code from JDoodle directly into your website/blog. Click here to know more.
- JDoodle offers an API service. You can execute programs just by calling our API.
 Click here to know more.
- If you like JDoodle, Please share us in Social Media. **Click here** to share.
- Check our **Documentation Page** for more info.

JDoodle is serving the programming community since 2013

- Do you need more than our **Embed** and **API** features?
- Looking for Multiple Files, Connecting to DB, Debugging, etc.?
- Are you building any innovative solution for your students or recruitment?
- Want to run JDoodle in-house?
- Custom Domain, White labelled pages for your institute?

Contact us - We are happy to help!