

```
import math

def minimax(tree, depth):
    max_turn = bool(depth % 2)
    for _ in range(depth):
        zipped = zip(tree[::2], tree[1::2])
        if max_turn:
            tree = [max(a, b) for a, b in zipped] # max player
        else:
            tree = [min(a, b) for a, b in zipped] # min player
        max_turn = not max_turn # swapping turns
    return tree[0]
```

```
A = [3, 5, 2, 9, 12, 5, 23, 23]
depth = math.ceil(math.log(len(A), 2))
print(f"Result = {minimax(A, depth)}")
```

Result = 12

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