```
import math
```

```
MAX, MIN = 1000, -1000
```

Double-click (or enter) to edit

```
def alphabeta(depth, idx, maximize, vals, alpha, beta):
  if depth == int(math.log(len(vals), 2)): # checking if leaf node
      return values[idx]
  if maximize:
      best = MIN
      for i in range(0, 2):
          val = alphabeta(depth + 1, idx * 2 + i, False, vals,alpha, beta) # calling
          best = max(best, val)
          if best < beta :
              alpha = max(alpha, best) # updating alpha value
      return best
  else:
      best = MAX
      for i in range(0, 2):
          val = alphabeta(depth + 1, idx * 2 + i, True, vals, alpha,beta) # calling
          best = min(best, val)
          if best > alpha:
                beta = min(beta, best) # updating beta
      return best
```

```
if __name__ == "__main__":
    values = [2,3,5,9,0,1,7,5]
    print(f"Result = {alphabeta(0, 0, True, values, MIN, MAX)}")
```

```
Result = 3
```

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