Code submission: 100%

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#include <iostream>
#include <vector>
using namespace std;
typedef vector<int> vint;
int n, m, k;
int profit(vint &coins, vector<vint> &memo, int i, int j) {
  if (j < i) return 0;
  if (memo[i][j] != -1) return memo[i][j];
  int p1 = profit(coins, memo, i + 1, j);
  int p2 = profit(coins, memo, i, j - 1);
  bool myturn = (n - (j - i + 1)) \% m == k;
  if (myturn) return memo[i][j] = max(coins[i] + p1, coins[j] + p2);
  else return memo[i][j] = min(p1, p2);
}
void solve() {
  cin >> n >> m >> k;
  vint coins(n);
  vector<vint> memo(n, vint(n, -1));
  for (int i = 0; i < n; i++) cin >> coins[i];
  cout << profit(coins, memo, 0, n - 1) << endl;</pre>
}
int main() {
  ios_base::sync_with_stdio(false);
  int t; cin >> t;
  for (int i = 0; i < t; i++) solve();
}
```