Tin

OS

Us

#55931771 | Daniel_Chura's solution for [UVA-10364]



```
using namespace std;
     int M, sum, sticks[20];
     int memo[1 << 20];</pre>
     int search(int length, int bitMask)
         if (memo[bitMask] != -1)
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             return memo[bitMask];
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         if (length > sum / 4)
             return 0;
         else if (length == sum / 4)
             if (bitMask == (1 << M) - 1)</pre>
             length = 0;
         for (int i = 0; i < M; ++i)
             if (((bitMask & (1 << i)) == 0) && search(length + sticks[i], bitMask | (1 << i)))</pre>
24
                 return memo[bitMask] = 1;
         return memo[bitMask] = 0;
     int solve()
         sum = accumulate(sticks, sticks + M, 0);
         if (sum % 4 != 0)
34
         memset(memo, -1, sizeof(memo));
         return search(0, 0);
     int main()
         while (N--)
             cin >> M;
             for (int i = 0; i < M; ++i)
                 cin >> sticks[i];
             cout << (solve() ? "yes" : "no") << endl;</pre>
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```

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