**package** lp3;

**public** **class** Knapsack {

**public** **static** **int** knapSack(**int** W, **int** wt[], **int** val[], **int** n) {

**int**[][] dp = **new** **int**[n + 1][W + 1];

**for** (**int** i = 0; i <= n; i++) {

**for** (**int** w = 0; w <= W; w++) {

**if** (i == 0 || w == 0)

dp[i][w] = 0;

**else** **if** (wt[i - 1] <= w)

dp[i][w] = Math.*max*(val[i - 1] + dp[i - 1][w - wt[i - 1]], dp[i - 1][w]);

**else**

dp[i][w] = dp[i - 1][w];

}

}

**return** dp[n][W];

}

**public** **static** **void** main(String[] args) {

**int** val[] = { 60, 100, 120 };

**int** wt[] = { 10, 20, 30 };

**int** W = 50;

**int** n = val.length;

System.***out***.println("Maximum value: " + *knapSack*(W, wt, val, n));

}

}