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package 测试2;
import java.util.Scanner;
public class 购物单 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        while (sc.hasNext()) {
            int money = sc.nextInt();
            int num = sc.nextInt();
            int[] price = new int[num + 1];
            int[] value = new int[num + 1];
            int[] check = new int[num + 1];
            price[0] = 0;
            value[0] = 0;
            check[0] = 0;
            for (int i = 1; i <= num; i++) {
                price[i] = sc.nextInt();
                value[i] = sc.nextInt();
                check[i] = sc.nextInt();
            }
            // 行是数量，列是钱
            int[][] res = new int[num + 1][money + 1];
            for (int i = 0; i <= num; i++)
                res[i][0] = 0;
            // 行n=num数量 列m=money钱数
            for (int m = 1; m <= money; m++) {
                for (int n = 1; n <= num; n++) {
                    // 买附件
                    if (check[n] > 0 && price[n] + price[check[n]] < m) {
                        // 递推(上次+本次)--->中间变量
                        int w = res[n - 1][m - price[n]] + value[n] * price[n];
                        // 中间变量--->本次
                        res[n][m] = Math.max(w, res[n - 1][m]);
                    }
                    // 买主件
                    if (check[n] <= 0 && price[n] <= m) {
                        // 递推(上次+本次)--->中间变量
                        int w = res[n - 1][m - price[n]] + value[n] * price[n];
                        // 中间变量--->本次
                        res[n][m] = Math.max(w, res[n - 1][m]);
                    }
                }
            }
            System.out.println(res[num][money]);
        }
        sc.close();
    }
}

```