

基于红外、光敏感应的 的 教室节电系统

The magic word is 'trust.' As a substitute for trying to control a myriad of actions through detailed contracts, constant oversight, and the threat of litigation or dismissal, elevating the level of trust within an organization is the most powerful means in the world of raising performance. Nothing - and I mean nothing - is more conducive to "better, faster, cheaper" than a high level of openness and trust between people in disparate jobs and locations who are working together toward a common end.

GROUP

组 员

程宇凡

耿猛

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分工
合作

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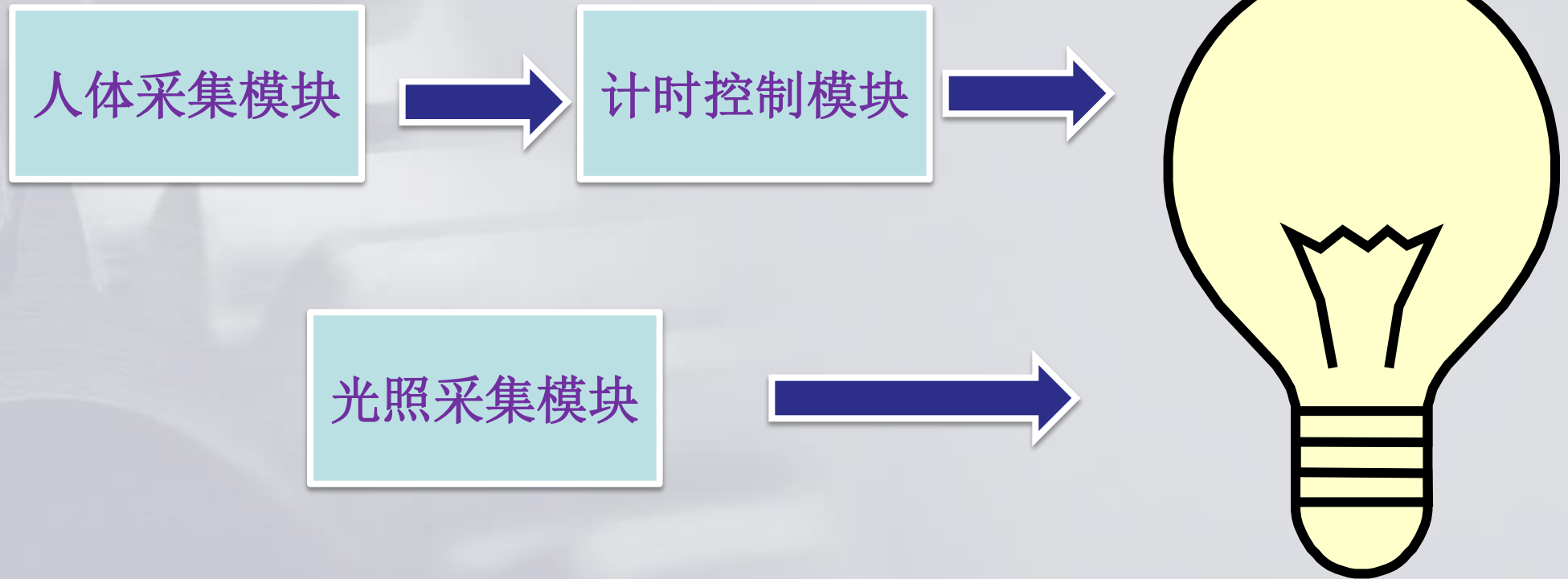
GROUP

项目介绍

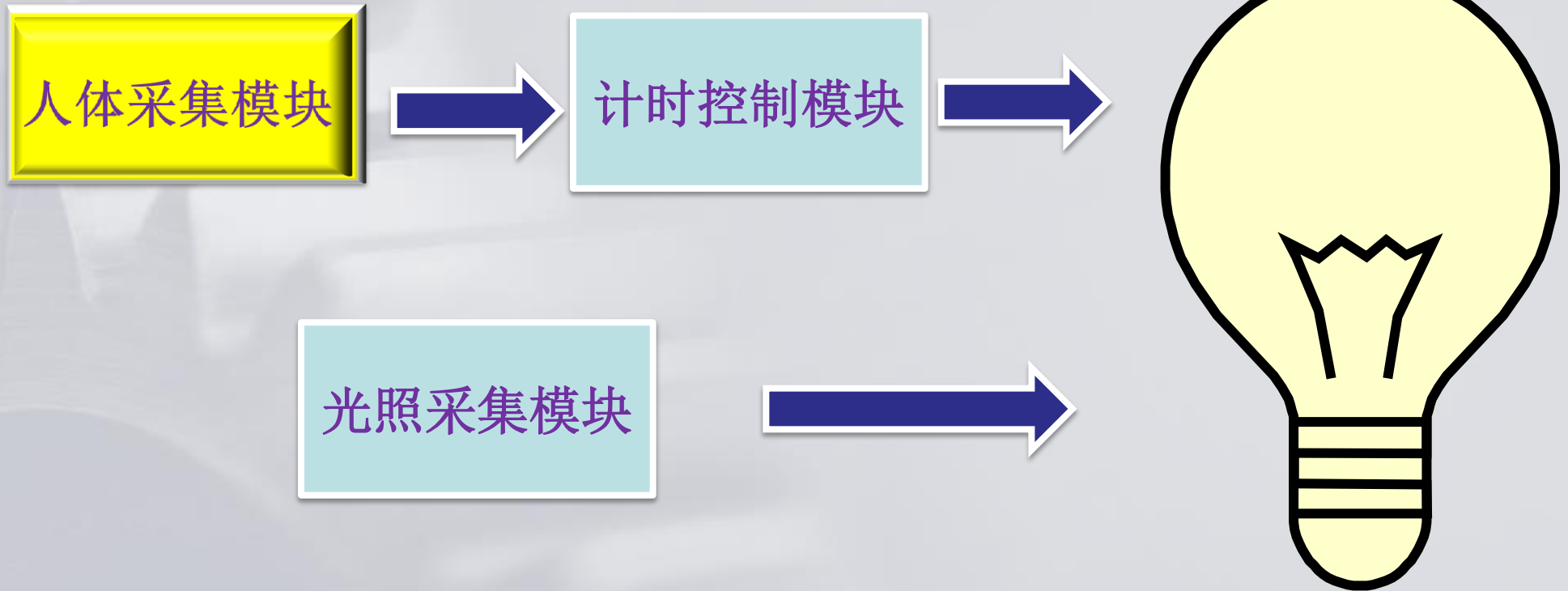
学校大部分自习室都自由进出，但是好多教室的灯光开关都没人管理，本项目实验目的为了研制出一种能智能控制教室灯光的系统。虽然，有些教室里已经装有智能开关，但是频繁出现教室里还有在自习或者上课，或者是阴天，教室里的电灯就自动关闭的现象。这虽然达到节能的效果，却影响了同学们的正常学习。

本项目的教室节能系统将在以往的智能开关的基础上进行一些改进。通过红外传感探测教室里是否有人，从而实现智能控制电灯开关，同时光敏电阻的对教室光线进行检测。通过一些简单的逻辑电路在光线比较亮的时候关闭灯光，从而实现节电。

内容汇报



内容汇报



热释电红外辐射传感器

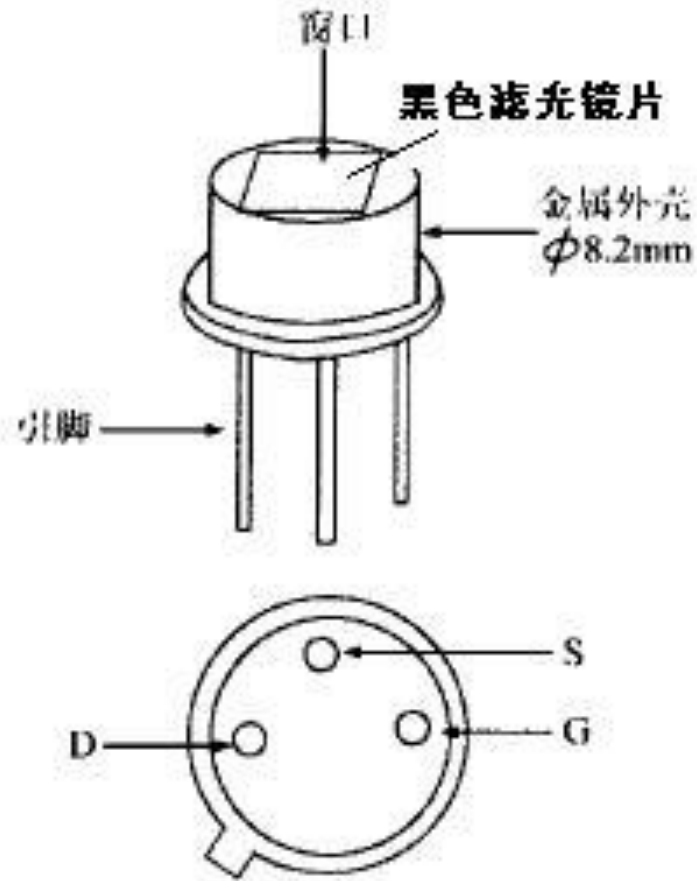
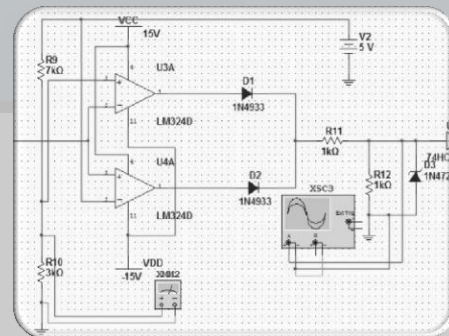
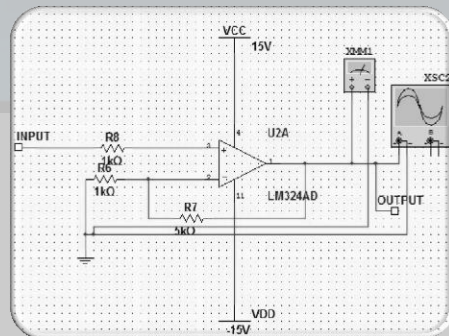
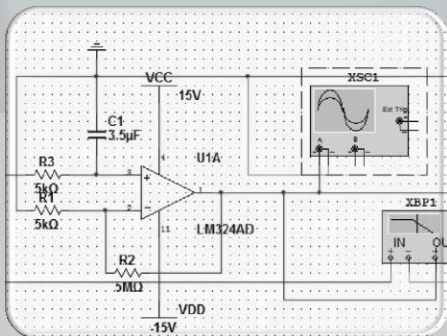


图 1 热释电红外线传感器外形

内容汇报



滤波
电路

二级
放大
电路

数值
比较
器

内容汇报

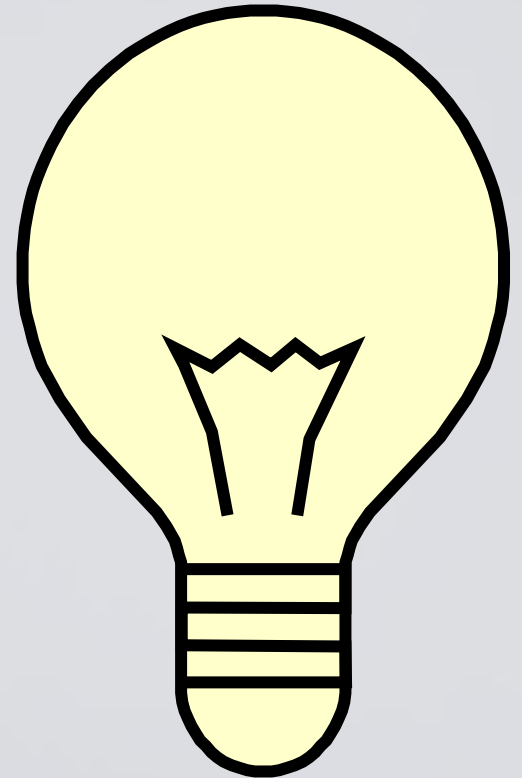
人体采集模块

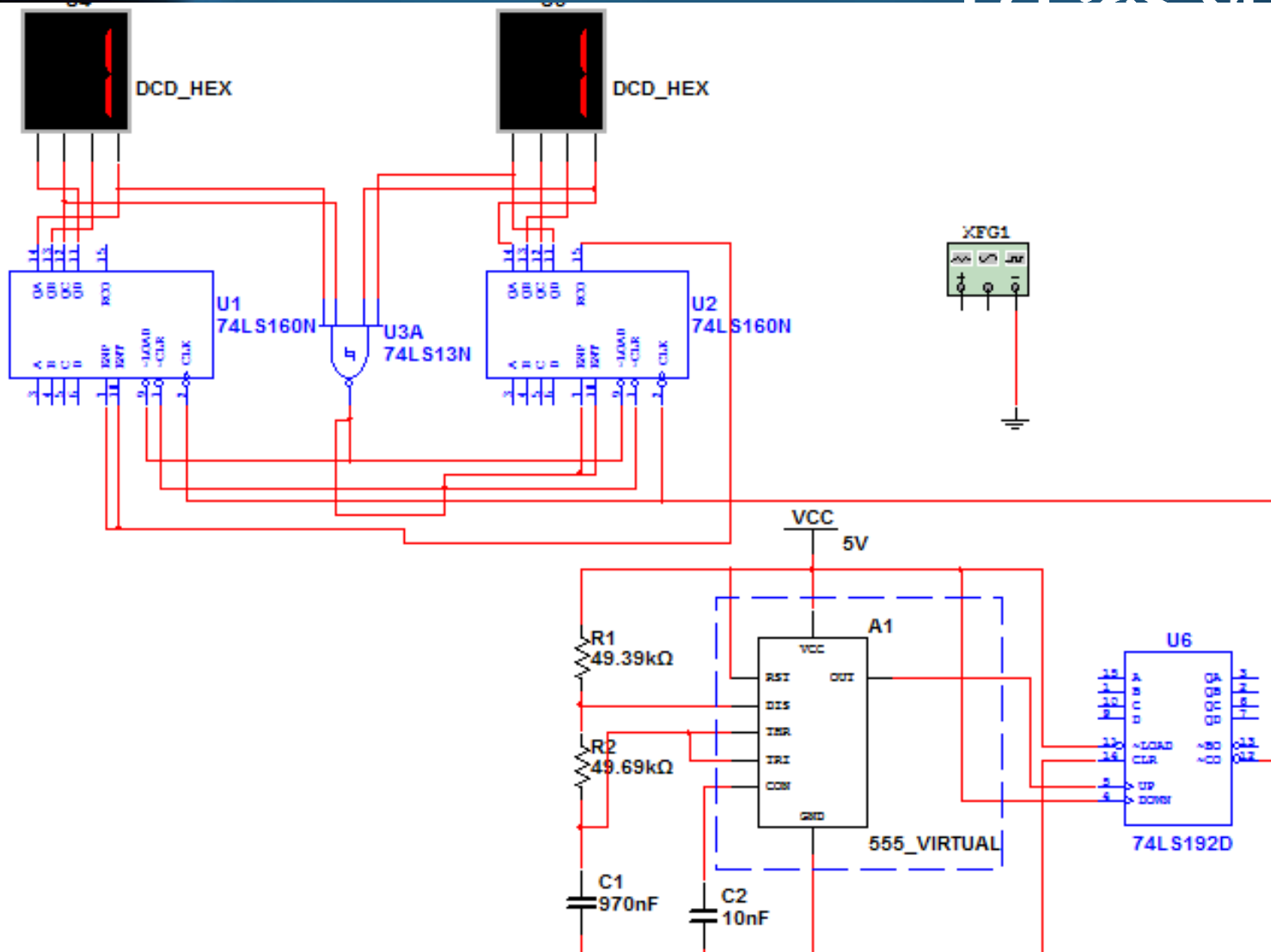


计时控制模块



光照采集模块





内容汇报

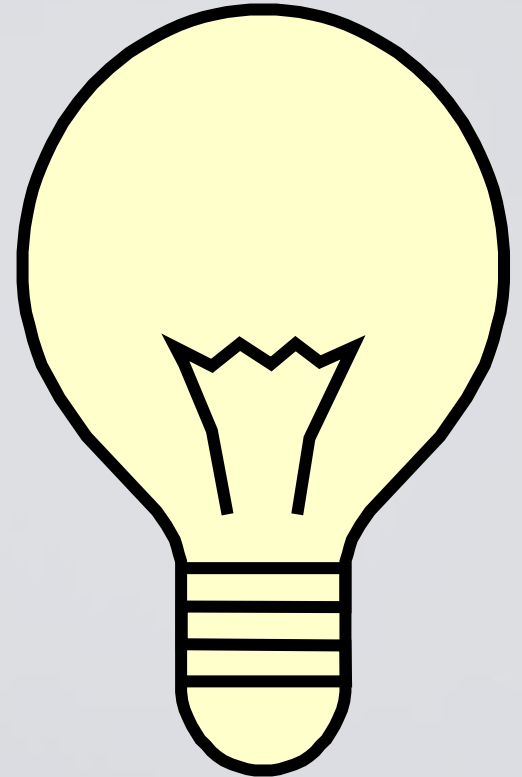
人体采集模块



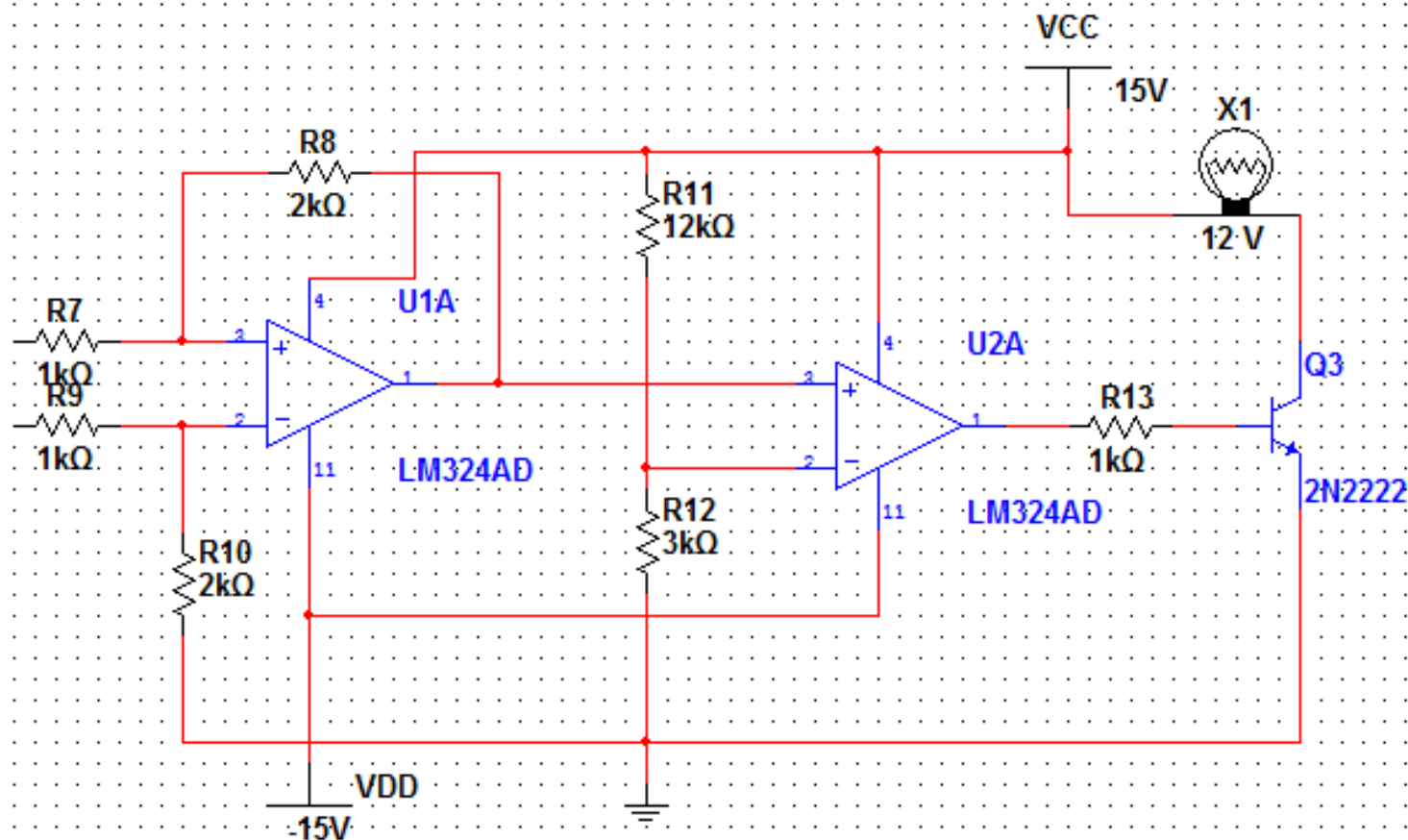
数字计时模块



光照采集模块



内容汇报



内容汇报

分工合作



收获感想



Thank you!

