

2005 - 2006

**ACSL**  
**American Computer Science League**

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Contest #1

**Junior Division**  
**ACSL POST OFFICE**

**PROBLEM:** The ACSL Post Office is going online and needs you to write the algorithm to determine the postage class for entered mail. Postage class is determined by the size of a piece of mail. The length of a piece of mail is always the side parallel to the written address. The following mutually exclusive definitions are used to determine a postage class:

**REGULAR POST CARD:** The length must be between 3.5 and 4.25 inches, inclusive. The height must be between 3.5 and 6 inches, inclusive. The thickness must be between .007 and .016 inches, inclusive.

**LARGE POST CARD:** The length must be between 4.25 and 6 inches. The height must be between 6 and 11.5 inches. The thickness must be between .007 and .016 inches, inclusive.

**ENVELOPE:** The length must be between 3.5 and 6.125 inches, inclusive. The height must be between 5 and 11.5 inches, inclusive. The thickness must be between .016 and .25 inches.

**LARGE ENVELOPE:** The length must be between 6.125 inches and 24 inches. The height must be between 11 and 18 inches, inclusive. The thickness must be between .25 and .5 inches, inclusive.

**PACKAGE:** Use package class when the item exceeds all the rules for large envelope and when the length plus the distance around the other sides of a package equals 84 inches or less.

**LARGE PACKAGE:** Use large package class when the length plus the distance around the other sides of a package is more than 84 inches but is not more than 130 inches.

**UNMAILABLE:** Any item that does not conform to any of the above requirements.

**INPUT:** There will be 5 input lines. Each line will contain 3 rational numbers that represent in order the length, width and thickness of a piece of mail.

**OUTPUT:** For each input, print the postage class according to the rules above.

***Remember ACSL's prime directive: All data must be entered in one RUN of the program. If your program stops, no other data may be entered. If incorrect data is entered, the data is re-entered from the beginning. We suggest that you design your program so that the output is printed after each set of inputs is entered.***

**SAMPLE INPUT**

1. 4, 4, .009
2. 5, 7, .013
3. 5, 7, .2
4. 10, 12, .4
5. 10, 12, 30

**SAMPLE OUTPUT**

1. regular post card
2. large post card
3. envelope
4. large envelope
5. large package