



A CSW Industrials Company



Condensate
overflow switches and
cleanout devices



Consequences of a clogged drain line

About **one in 50 insured homes** has a property damage claim caused by **water damage** or freezing each year

Average homeowner losses:
\$10,234 per claim



Ensuring the condensate drain line is clear and draining correctly may prevent extensive damage to the home or office!

A condensate switch is essential to a properly functioning HVAC system

Auxiliary and secondary drain systems

In addition to the requirements of Section 307.2.3.1, where damage to any building components could occur as a result of overflow from the equipment primary condensate removal system, **one of the following auxiliary protection methods shall be provided for each cooling coil or fuel-fired appliance that produces condensate:**



IMC CODE 307.2.3.4

A water-level detection device conforming to UL 508 shall be provided that will shut off the equipment served in the event that the primary drain is blocked. The device shall be installed in the primary drain line, the overflow drain line, or in the equipment-supplied drain pan, located at a point higher than the primary drain line connection and below the overflow rim of such pan.

Code now requires a dedicated cleanout



NEWER ADDITION

IMC CODE 307.2.5 **Drain line maintenance**

Condensate drain lines shall be configured to permit the clearing of blockages and performance of maintenance **without requiring the drain line to be cut.**



Why Safe-T-Switch®?



A CSW Industrials Company



Reliability

Patented design, coupled with rigorous quality control and quality checks, make the Safe-T-Switch the **most reliable switch on the market.**

Adjustability

Industry leading, one-of-a-kind ratcheting dials in the most accurate sensitivity available in a mechanical switch.

Efficiency

Design improvements make installation and repairs **faster and easier for contractors.**

SS1

For primary drain lines



Removable cover

Removable cover stays securely in place using tapered cams

Ratchet float control

Float sensitivity can be easily adjusted without removing the cap

Solid float

Improves accuracy

Cleanout Tool

Fits flush inside switch, allowing clearing blockages, including at high PSI, much easier. Clips onto cap for easy storage

Anti-algae design

Convex bottom prevents float from touching bottom



SS2

For primary drain pan's auxiliary outlet



Removable cover

Removable cover stays securely in place using tapered cams

Ratchet float control

Float sensitivity can be easily adjusted without removing the cap

Solid float

Improves accuracy

Improved design

Float sits lower than the outlet of the device, increasing sensitivity



SS3

For primary and auxiliary drain pans (in-pan)



Ratchet float control

Float sensitivity can be easily adjusted without uninstalling

Smaller footprint

Can fit in tighter spaces

Solid float

Improves accuracy

Improved clip

Adjustable clip locks securely to sheet metal and plastic drain pans



SC1

Inline cleanout device for condensate drain line outlets



Integrated Schrader valve

Pressure force clears out clogged condensate lines quickly, without requiring cap removal. Compatible with full range of RectorSeal products, including LineShot

Removable cover

Removable cover stays securely in place using tapered cams

Cleanout Tool

Fits flush inside the SC1, allowing clearing blockages, including at high PSI, much easier. Clips onto cap for easy storage

Anti-algae design

Convex bottom prevents algae build-up



RectorSeal and condensate management



Installation

Safe-T-Switch®



Maintenance

A/C Pan Treatment

Nu Line®

Drain Guard



LineShot™

Repairs



A/C Drain Pump

Mighty Pump™

RectorSeal provides a **complete condensate management solution!**

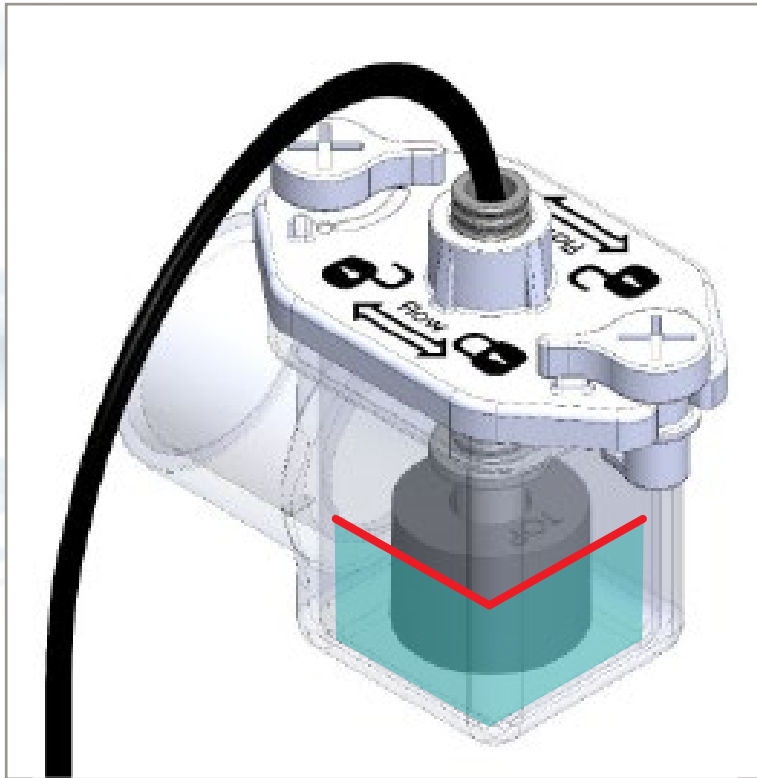
Improved sensitivity and adjustability



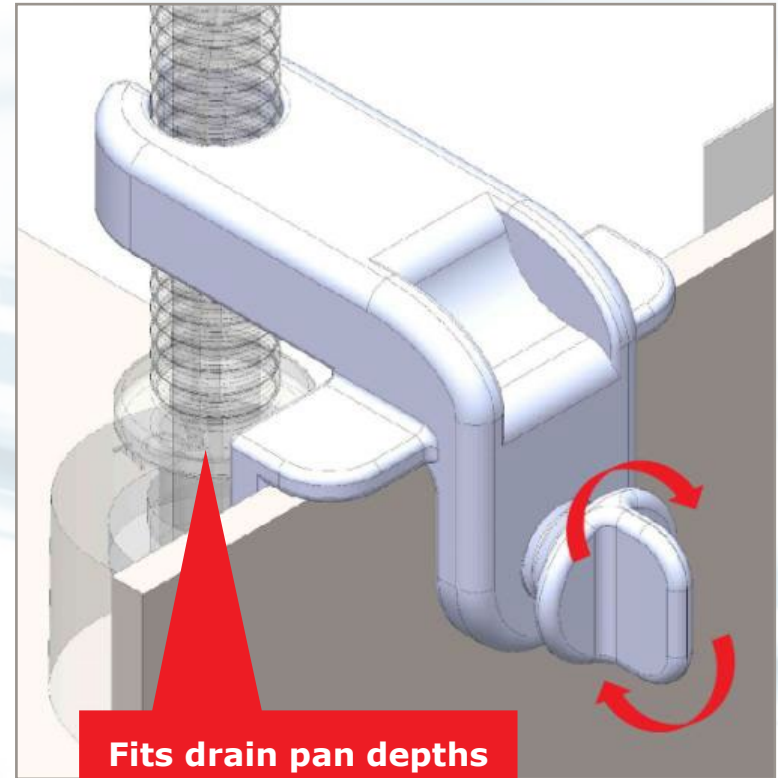
**Improved ratcheting and float design
minimizes nuisance shutdowns!**

Improved sensitivity and adjustability

SS2 now allows float to **sit lower than the outlet of the device** increasing sensitivity.



Improved clip design of the SS3 secures the switch to the side of the pan.

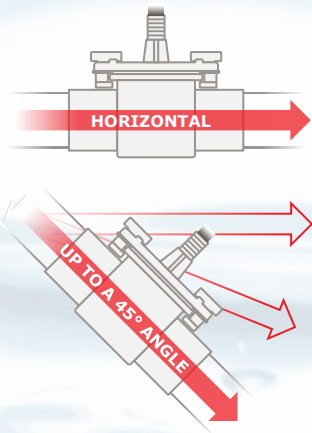


**Fits drain pan depths
from 1" to 2"**

Installation options

SS1

Install **horizontally** or up to an angle of 45°.



SS2

Install **horizontally**.



SS3

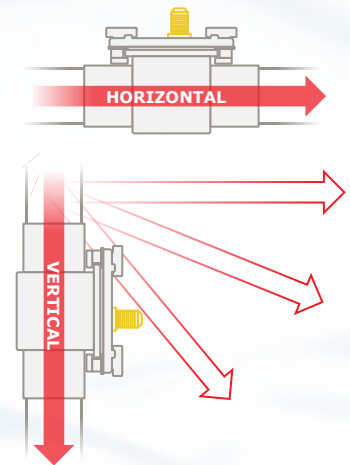
Install **horizontally** attached to the condensate pan.

Adjust the ratchet float to the bottom most position for highest sensitivity (recommended).



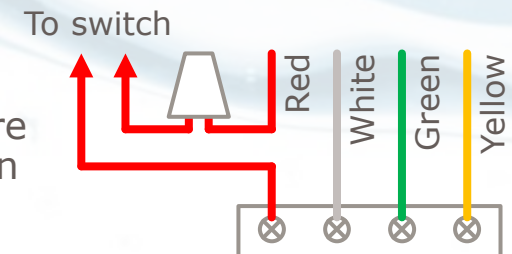
SC1

Install **horizontally, vertically, or any angle**.



Wiring

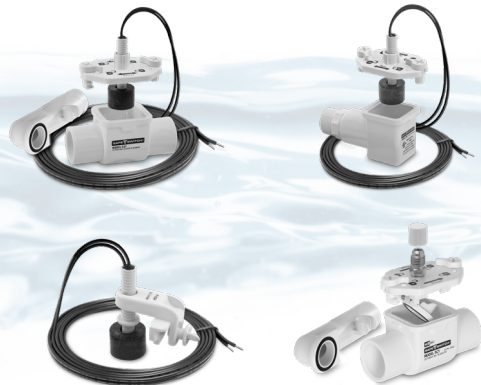
Switch can be connected to either the **red or yellow thermostat wire** in series to the furnace/air handler. **Red wire** shuts down entire unit (example shown). **Yellow wire** allows the fan to continue to run (to inhibit mold growth during long absences).



RectorSeal and condensate management

Installation

Safe-T-Switch®



Maintenance

A/C Pan Treatment

Nu Line®

Drain Guard



LineShot™

Repairs



A/C Drain Pump

Mighty Pump™

Easy-to-use products keep your system running smoothly!

Build-up from condensate

Algae, microbial organisms and bacteria will **begin to grow in moist conditions where water pools.**

This growth can show up in drain pans and drain lines as sludge or slime, **creating odors and clogging the drain line.**

▼

Monthly inspections and cleanings are the first steps to build-up prevention!



Sludge or slime build-up

Maintenance products

Nu Line



AC drain line cleaner

- Prevents line clogs and leaks by removing slime and algae
- Safe for pipes, pans and pumps

A/C Pan Treatment



AC drain pan & drain line treatment

- Prevents costly damage caused by water overflow
- Eliminates bad odors

Drain Guard



Algae, Fungus and Bacteria Protection For Your HVAC Systems

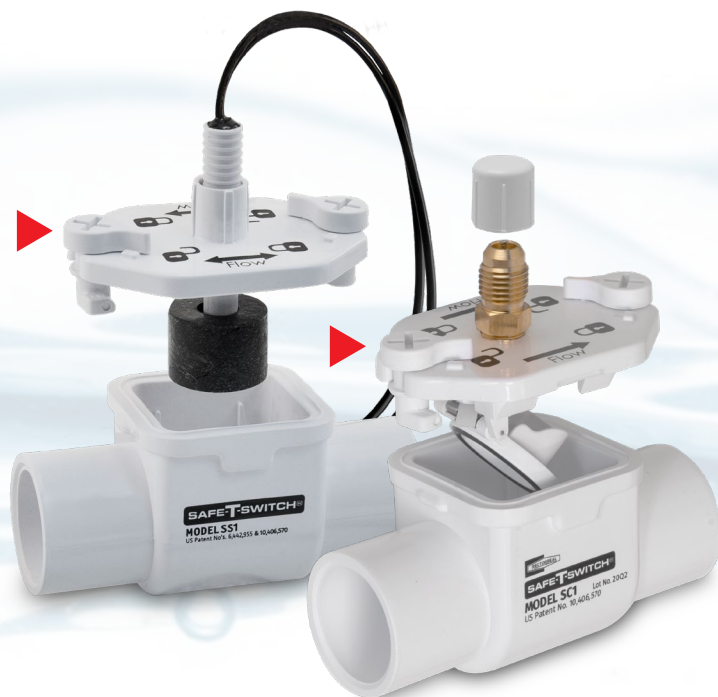
- Keeps condensate drains clean and addresses white slime
- Refill kit available

90 DAY
TREATMENT

Maintenance chemical treatment is recommended every 90 days or as needed

Maintenance
free operation for
up to six months

Easy to remove cover makes adding Nu Line® to your condensate line quick and simple.

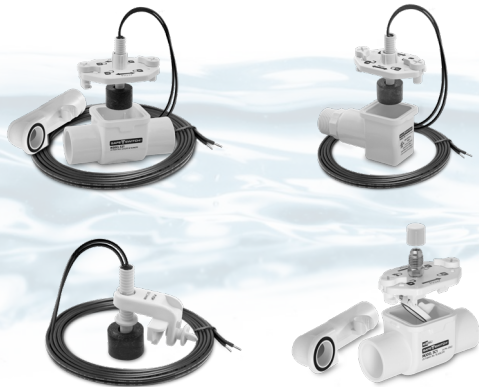


Tapered cams allow quick access and keeps lid secure.

RectorSeal and condensate management

Installation

Safe-T-Switch®



Maintenance

A/C Pan Treatment

Nu Line®

Drain Guard



Repairs

LineShot™



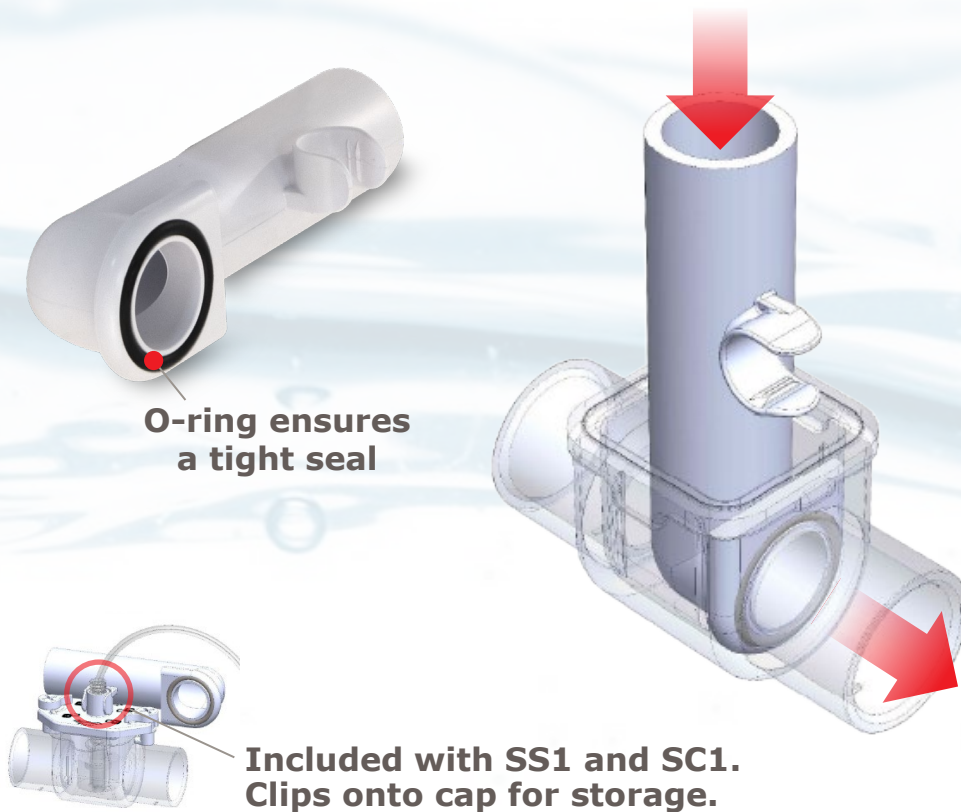
A/C Drain Pump

Mighty Pump™

RectorSeal offers Pro and DIY tools to clear condensate lines, limiting unnecessary call-backs.

Cleanout tool

Improved cleanout tool fits **flush inside the SC1 to allow clearing of blockages in either direction** using Lineshot or the A/C drain foot pump.

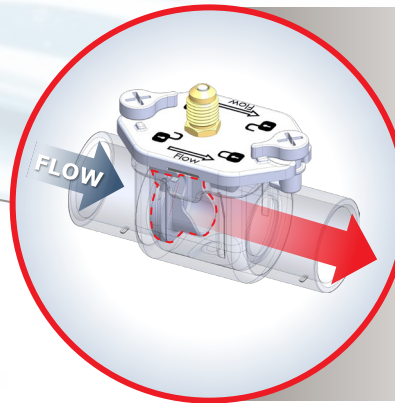


Integrated Schrader valve



A CSW Industrials Company

Pressure force clears out clogged condensate line quickly. Compatible with LineShot AC drain line flush kit



Flapper stops condensate flow, allowing down line blockages to be cleared with no more than 30psi of force.

Why Safe-T-Switch®?



Reliability

Patented design, coupled with rigorous quality control and quality checks, make the Safe-T-Switch the **most reliable switch on the market.**

Adjustability

Industry leading, one-of-a-kind ratcheting dials in the most accurate sensitivity available in a mechanical switch.

Efficiency

Design improvements make installation and repairs **faster and easier for contractors.**

Safe-T-Switch® lineup

SS1



Primary drain lines

- Ratchet float control
- Removable cover
- Cleanout tool

SS2



Primary drain pan's auxiliary outlet

- Ratchet float control
- Removable cover

SS3



Primary and auxiliary drain pans (in-pan)

- Ratchet float control
- Improved clip
- Smaller footprint

SC1



Cleanout device for condensate drain line outlets

- Schrader valve
- Removable cover
- Cleanout tool

Code	Qty/case
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97085	24
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Code	Qty/case
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97087	24
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Code	Qty/case
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97089	24
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Code	Qty/case
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97091	24
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Safe-T-Switch® Plenum lineup



UL listed Safe-T-Switch® products constructed from PVC and rated for plenum installations.



SS1P



Primary drain lines

- Ratchet float control
- Removable cover
- Cleanout tool

SS2P



Primary drain pan's auxiliary outlet

- Ratchet float control
- Removable cover

SS3P



Primary and auxiliary drain pans (in-pan)

- Ratchet float control
- Improved clip
- Smaller footprint

Code	Qty/case
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97086	24
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Code	Qty/case
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97088	24
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Code	Qty/case
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97090	24
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Additional Safe-T-Switch® models

ELECTRONIC OVERFLOW CUTOFF SENSORS

SSW



For drain pan or floor

- For direct placement into a metal or plastic secondary drain pan or on a floor.

SS610E



For mini-split systems

- For installation directly on primary drain pan or clipped to coils above primary drain pan

SS500EP



For commercial rooftop down flow units

- For primary drain pan when plenum rating is needed

SS103E



Dual sensor switching

- For primary drain pan line and auxiliary drain pan or auxiliary drain pan outlet and auxiliary drain pan

Code	Qty/case
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97092	24
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Code	Qty/case
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97622	12
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Code	Qty/case
------	----------

97693	24
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Code	Qty/case
------	----------

97692	24
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Safe-T-Switch Wet (SSW)

For secondary drain pan or floor



Automatic Reset

Probes can be wiped dry,
no absorption pad.
No blow dryer needed
to reset!

Constant Monitoring

Logic circuit continuously
samples the sensor probes for
the accumulation of water and
determines if the presence of
water is transient or permanent

Simple Installation

No mounting necessary.
Weighted body ensures
it stays in place. Unique
hex design fits against
edge of pan or wall

Accurate Detection

Proprietary design
sensors can detect as
little as 1/16" of water



Safe-T-Switch Wet (SSW)

For secondary drain pan or floor



- **No moving parts** to break or become clogged, easy cleaning and drying of sensors. No absorption pad, no blow dryer needed to reset
- **Multipurpose water sensor** is placed directly into metal or plastic secondary pan or on floor. Turns system off when moisture is detected
- **Very simple installation.** No mounting necessary. Weighted body ensures it stays in place
- **Unique hex design** fits against edge of pan or wall
- Overall dimensions **smaller than competition** (2.5"L x 1.5"W x 1.0"H)
- **Easy to read Indication LED** on top cover
- Proprietary design sensors can detect as little as 1/16" of water
- **24VAC, 2Amp** (lead wire 22 AWG)
- Lead wires (2 for power, 3 for switching) **bundled in 5' length for easy installation**



SS610E

For mini-split systems



Unique Bracket

Installs directly on primary drain pan or clipped to coils above primary drain pan

Code Compliant

Complies with IMC & IRC codes



Easy To Mount

Onboard LED indicator can be mounted to side of unit

Multi Voltage

Univolt input 110 to 230 Volts AC

Switching Capacity:
0 to 250 Volts AC, 5 A,
1250VA; 0 to 30 Volts
DC, 5A, 150W

SS610E

For mini-split systems



A CSW Industrials Company

- Installs directly on primary drain pan or clipped to coils above primary drain pan
- Onboard LED indicator can be mounted to side of unit
- Can be wired in both normally open and normally closed systems
- Meets IMC and IRC requirements
- Inexpensive insurance
- Multi-voltage
- No batteries required



Attaches directly to primary pan installation



Clipped to coils with universal bracket above primary drain pan



Maintenance chemicals

Nu Line®

AC drain line cleaner



90 DAY
TREATMENT

- Prevents line clogs & leaks
- Removes slime & algae
- Safe for pipes, pans & pumps
- Non-corrosive, non-fuming

A/C Pan Treatment

AC drain pan & drain line treatment



90 DAY
TREATMENT

- Prevents costly water overflow damage
- Eliminates bad odors

Code	Description	Qty / case
97690	Nu Line 32 oz. bottle	12
97685	Nu Line 8 oz. bottle	24
68115	AC Pan Treatment 200 tablet bottle	12
68117	AC Pan Treatment 30 tablet bottle	6

Drain Guard

Drain Guard

Algae, Fungus and Bacteria Protection For Your HVAC Systems



- Keeps condensate drains clean and addresses white slime
- Designed to prevent growth of algae, bacteria and fungus
- Maintenance free operation for a period of up to six months

Code	Description	Qty/case
85001	Drain Guard – T Body	12
85002	Drain Guard – Refill Kit	12



Line flushing devices

A/C Drain Pump

Clears AC drain lines from debris and clogs in seconds



Mighty Pump™

Hand-operated pump for clearing primary and secondary drain lines



LineShot™

AC Drain Line Flush Device



Code	Description	Qty / case
83418	A/C Drain Pump	6
97795	Mighty Pump	4
81980	LineShot™ AC Drain Line Flush Device	6
81981	LineShot™ CO ₂ Refill Cartridges (12 count)	6



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